Thank you for purchasing your new Panasonic cordless telephone.

Please read the IMPORTANT SAFETY INSTRUCTIONS on page 82 before use. Read and understand all instructions.

Caller ID and Call Waiting Service, where available, are telephone company services. After subscribing to Caller ID this phone will display a caller's name and phone number. Call Waiting Caller ID, which displays a second caller's name and phone number while the user is on another call, requires a subscription to both Caller ID and Call Waiting with Caller ID Services (CWID).

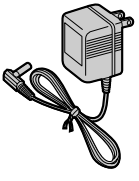
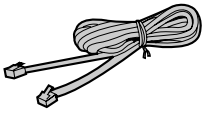
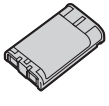
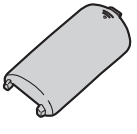
Attach your purchase receipt here.

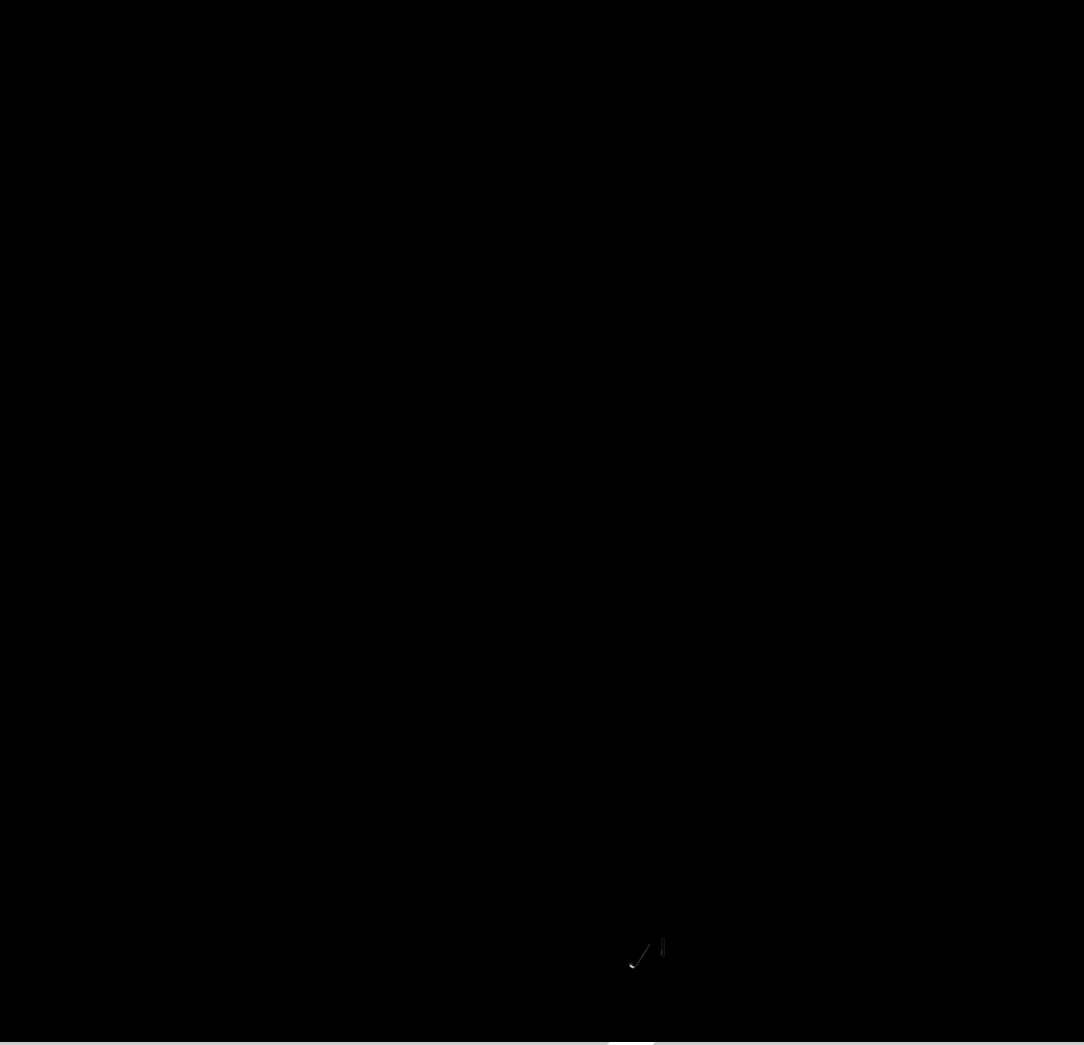
Trademarks:

openLCR, openLCR.com, and the openLCR logo are the trademarks of openLCR.com, Inc.

Accessories (included)

For extra orders, call 1-800-332-5368.
For hearing or speech impaired TTY users, call 1-866-605-1277.

☐ AC Adaptor (p. 9) Order No. PQLV1Z (PQLV1)  one	☐ Telephone Line Cord (p. 9) Order No. PQJA10075Z  one
☐ Battery (p. 10) Order No. HHR-P104  two	☐ Handset Cover (p. 10) Order No. PQKK10141Z2 (Black) PQKK10141Z1 (Silver)  two
☐ Belt Clip (p. 66) Order No. PQKE10375Z2 (Black) PQKE10375Z3 (Silver) two	☐ Charger Unit (p. 9) Charger Order No. PQLV30023YB (Black) PQLV30023YS (Silver) AC Adaptor Order No. KX-TCA1-G (KX-TCA1) one



ot
k use is being used, noise may be
rec way from the microwave oven and
pa
th rdless phone's base unit, noise may be
Mo dless phone's base unit and closer to your
ur

Contents

Preparation

Location of Controls 6

Installation 9
- Connections 9
- Installing the Battery in the Handset 10
- Battery Charge 10

Programmable Settings 12
- Programming Guidelines . 12
- Function Menu Table 13
- Date and Time 14
- Display Language 15
- Dialing Mode 15
- Line Mode 16
- Auto Talk 16
- Ringer Volume 17
- Ringer Tone 18
- LCD Contrast 20

Preparing the Answering System 20
- Greeting Message 20
- Caller's Recording Time . . 22
- Number of Rings 23
- Recording Mode 24
- Message Alert 24

Telephone System

Making Calls 25
- Using the Handset 25
- Using the Base Unit 28

Answering Calls 29

Caller ID Service 30
- Talking Caller ID 31

Using the Caller List 32
- Viewing the Caller List . . . 33
- Calling Back from the Caller List 33
- Editing the Caller's Phone Number 34
- Caller ID Number Auto Edit 35
- Storing Caller Information in the Phone Book 36
- Erasing Caller Information . 37

Phone Book 38
- Storing Names and Numbers 38
- Dialing from the Phone Book 40
- Chain Dial 41
- Editing an Item in the Phone Book 42
- Erasing an Item in the Phone Book 42
- Copying Items in the Phone Book 43

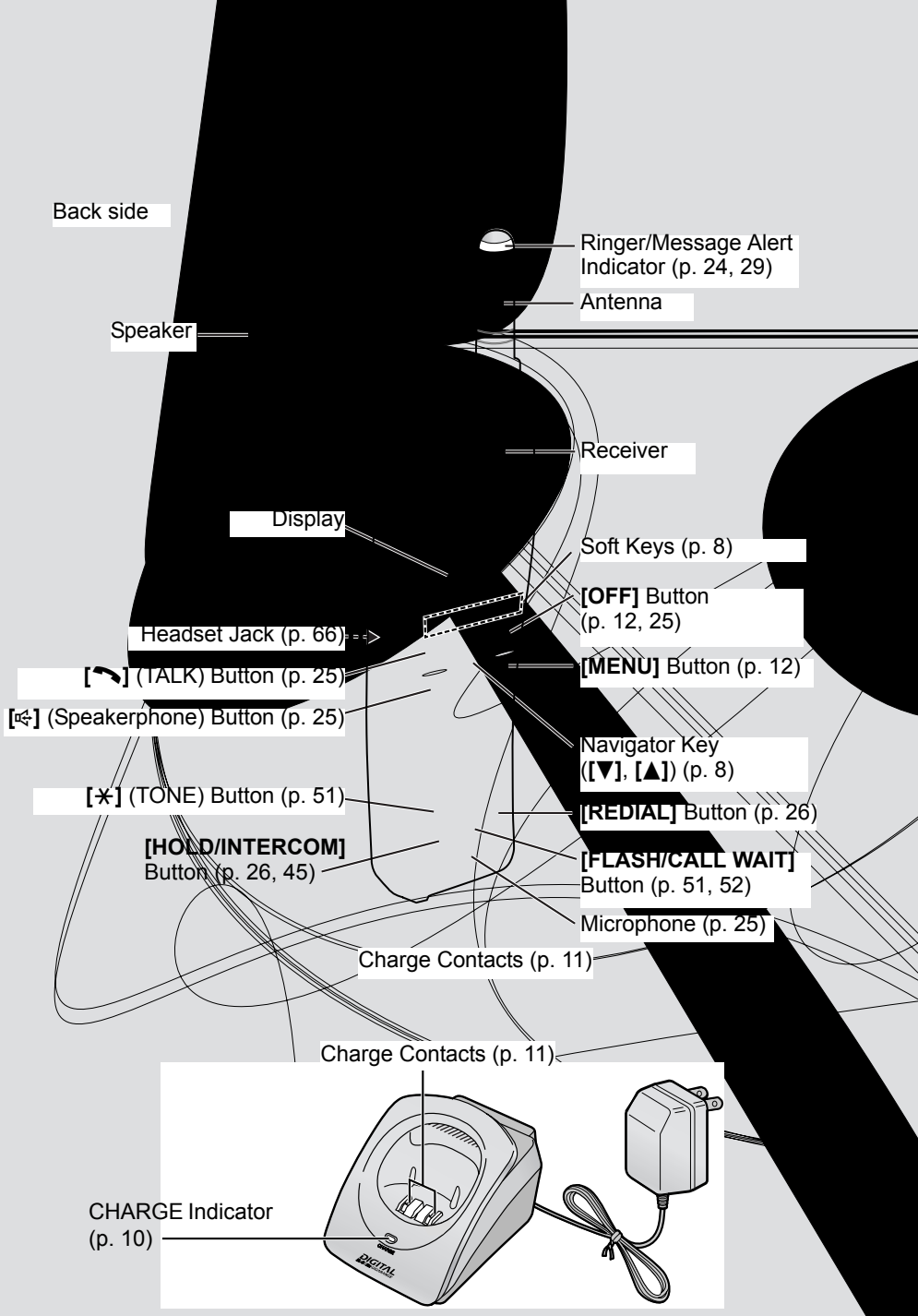
Intercom 45
- Making Intercom Calls 45
- Answering Intercom Calls . 46
- Voice Paging 47

Transferring a Call 48

Conference Calls 50
- Call Share 50

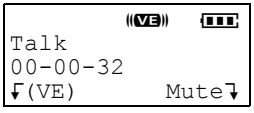
Special Features 51
- Temporary Tone Dialing (For Rotary or Pulse Service Users) 51
- Muting Your Conversation . 51
- For Call Waiting Service Users 51
- Using the PAUSE Key (For PBX Line/Long Distance Calls) 52
- FLASH Button 52
- Incoming Call Tone 53
- Key Tone 54
- Re-registering the Handset 54

[STOP] Button (p. 21, 59)
[ANSWER ON] Button and Indicator (p. 55)
NEW MESSAGE Indicator (p. 57)
Display (p. 8)
[MEMO] Button (p. 61)
[REDIAL] Button (p. 43)
[GREETING REC] (Record) Button (p. 21)
CHARGE Indicator (p. 11)
[MESSAGE] Button (p. 57)
[SKIP] Button (p. 59)
[REPEAT] Button (p. 59)
[GREETING]
[✳] (TONE) Button (p. 51)
Antenna (p. 3)
Charge Contacts (p. 11)
[LOCATOR/INTERCOM] Button (p. 45)
[FLASH/CALL WAIT] Button (p. 51, 52)
[MUTE] Button (p. 51)
[CONF] (Conference) Button (p. 28, 30)
Speakerphone Button and
MIC (Microphone) (p. 21)
VOLUME Button **[∨]**, **[∧]** (p. 18, 21)


Back side
Ringer/Message Alert Indicator (p. 24, 29)
Antenna
Speaker
Receiver
Display
Soft Keys (p. 8)
[OFF] Button (p. 12, 25)
Headset Jack (p. 66)
[MENU] Button (p. 12)
[ ] (TALK) Button (p. 25)
[ ] (Speakerphone) Button (p. 25)
Navigator Key ([▼], [▲]) (p. 8)
[✳] (TONE) Button (p. 51)
[REDIAL] Button (p. 26)
[HOLD/INTERCOM] Button (p. 26, 45)
[FLASH/CALL WAIT] Button (p. 51, 52)
Microphone (p. 25)
Charge Contacts (p. 11)
Charge Contacts (p. 11)
CHARGE Indicator (p. 10)

Location of Controls

Handset soft keys



Two soft keys are used to select functions displayed directly above each key. Functions displayed above the keys will change depending on the state of use.

On this sample display, "(VE)" and "Mute" are displayed above soft keys.

Pressing the right soft key selects mute "Mute".

Pressing the left soft key selects Voice Enhancer "(VE)".

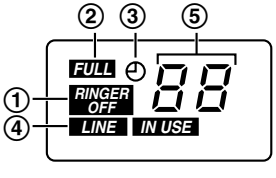
- When a function name does not appear above a soft key, the soft key has no function.

Handset navigator key

Scrolls up **[▲]** and down **[▼]** the function menu, the Caller List and the phone book.
Increases **[▲]** or decreases **[▼]** the handset ringer and receiver/speaker volumes.

Throughout these Operating Instructions:
- The soft keys are indicated by what is displayed above the keys. Ex. "Press **Mute**." indicates "Press the soft key below Mute".
- The navigator key is indicated by the arrows **[▼]** or **[▲]**.

Base unit display



① "RINGER OFF" indicates the base unit ringer is off (p. 18).

② "FULL" flashes when no new messages can be recorded. Erase unnecessary messages (p. 60).

③ "🕘" flashes until you set the date and time, and flashes after a power failure. If it is flashing, set the date and time (p. 14).

④ "LINE IN USE" functions as follows.

Off (invisible)	The line is free.
On	The line is being used.
Flashing	A call is on hold on the handset or base unit or the Answering System is answering a call (p. 55).
Flashing rapidly	A call is being received.

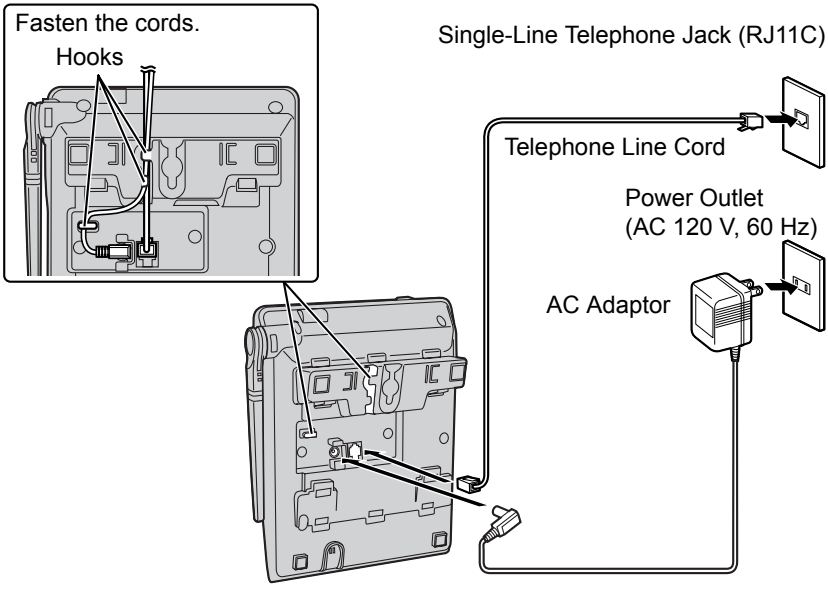
- "IN USE" displays when a handset is operating the Answering System.

⑤ Message counter shows:
- —the total number of recorded messages. If the recording time is set to "Greeting only", "00" will be displayed (p. 22).
- —the selected volume level while you are adjusting the volume (p. 21, 28).
- —" E " when your greeting message or memo message was not recorded correctly (p. 21, 61).

Installation

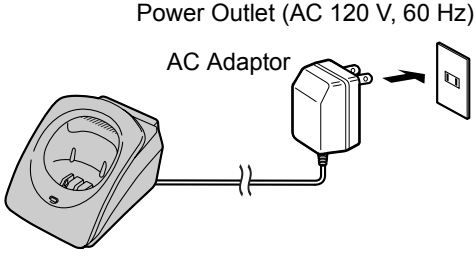
Connections

Base unit



- Base Unit: USE ONLY WITH Panasonic AC ADAPTOR PQLV1 (Order No. PQLV1Z).
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- If your unit is connected to a PBX which does not support Caller ID, you cannot access Caller ID services.
- The unit will not work during a power failure. We recommend connecting a standard telephone to the same telephone line or to the same telephone jack using the Panasonic KX-J66 T-adaptor.

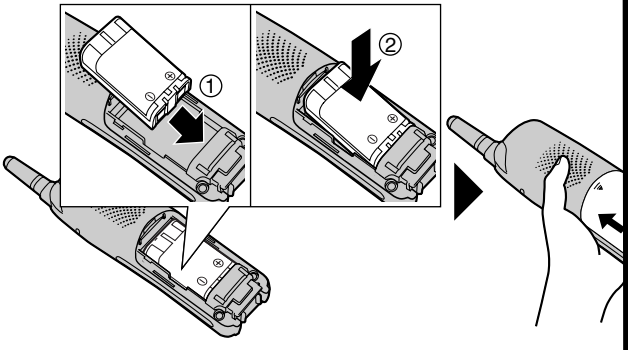
Charger unit



- Charger unit: USE ONLY WITH Panasonic AC ADAPTOR KX-TCA1 (Order No. KX-TCA1-G).
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)

Installing the Battery in the Handset

Insert the battery (①), and press it down until it snaps into the c
Close the cover.

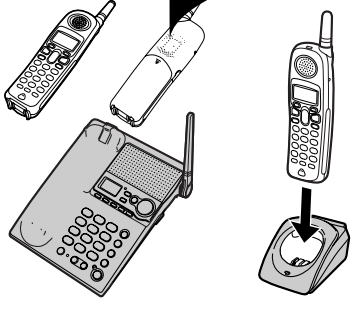


To replace the battery:
Press the notch on the cover firmly and slide it as indicated by the arrow. Replace the old battery with a new one (p. 11). Close the cover and charge the battery for 6 hours.

Battery Charge

Place the handsets on the base unit and charger. Charge for **6 hours** before initial use.

- The unit beeps once, the CHARGE indicator lights, and "Charging" is displayed.
- When the battery is fully charged, "Charge completed" is displayed.



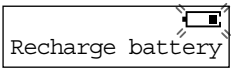
Battery strength

You can confirm battery strength on the handset display.
Battery strength is indicated by the icons shown in the chart to the right.

Display prompt	Battery strength
	Fully charged
	Medium
	Low
(flashing)	Needs to be recharged.
	Discharged

Recharge

Recharge the battery when:
—"Recharge battery" is displayed on the handset,
—"▭" flashes, or
—the handset beeps intermittently while it is in use.



- The display will continually indicate "Recharge battery" and/or "▭" will flash when the handset battery is charged for less than 15 minutes and the handset is lifted off the base unit or charger.
- If the battery has been discharged, the handset will display "Charge for 6h" and "▭" when you place the handset on the base unit or charger. The handset will not work unless the battery is charged. Continue charging.

Battery replacement:
If you cleaned the charge contacts and fully charged the battery, but after a few telephone calls, "Recharge battery" is displayed and/or "▭" continues to flash, or "Charge for 6h" and "▭" are displayed, the battery may need to be replaced. Please order a new Panasonic HHR-P104 battery at the telephone number shown on page 2. To replace the battery, see page 10.

A nickel metal hydride battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

Battery information

After your Panasonic battery is fully charged, you can expect the following performance:

Operation	Operating time
While in use (TALK)	Up to 5 hours
While not in use (Standby)	Up to 11 days

- A fully charged battery will give you up to 5 hours of continuous talk time, or keep your handset in Standby mode to receive incoming calls for up to 11 days (if no phone calls are made). Battery power is consumed whenever the handset is off of the base unit or charger, even when the handset is not in use. The longer you leave the handset off of the base unit or charger, the time you can actually talk on the handset will be shortened. Actual battery performance depends on a combination of how often the handset is in TALK mode and how often it is in Standby mode.
- If the battery is fully charged, you do not have to place the handset on the base unit or charger until "Recharge battery" is displayed and/or "▭" flashes. This will maximize the battery life.
- If you want to keep the battery fully charged at all times, place the handset on the base unit or charger when the handset is not used. The battery cannot be overcharged.
- **Clean the charge contacts of the handset, the base unit and the charger with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly.

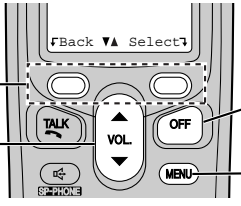
Programmable Settings

Programming Guidelines Handset

This unit has several programmable functions which can be selected from the function menu on the display (p. 13).

The soft keys selects the functions displayed above each soft key.

When "▼" or "▲" is displayed, navigator key scrolls through the menu.



[OFF] exits programming.

[MENU] enters the function menu.

How to select a function item from the menu

Make sure the handset and base unit are not being used. The handset must be operated near the base unit and while off the base unit or charger.

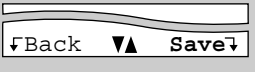
1 Press **[MENU]**.
- The main menu is displayed (p. 13).

2 Scroll to the desired item by pressing **[▼]** or **[▲]**.

3 Press **Select** to select the desired item.

4 If the item has a sub-menu, select the menu item (p. 13). Repeat steps 2 and 3 until the desired item is displayed. If the item has no sub-menu, go to step 5.

5 Select the desired setting by pressing **[▼]** or **[▲]**, then press **Save** to save your setting.
- A confirmation tone will be heard and the setting will be saved.



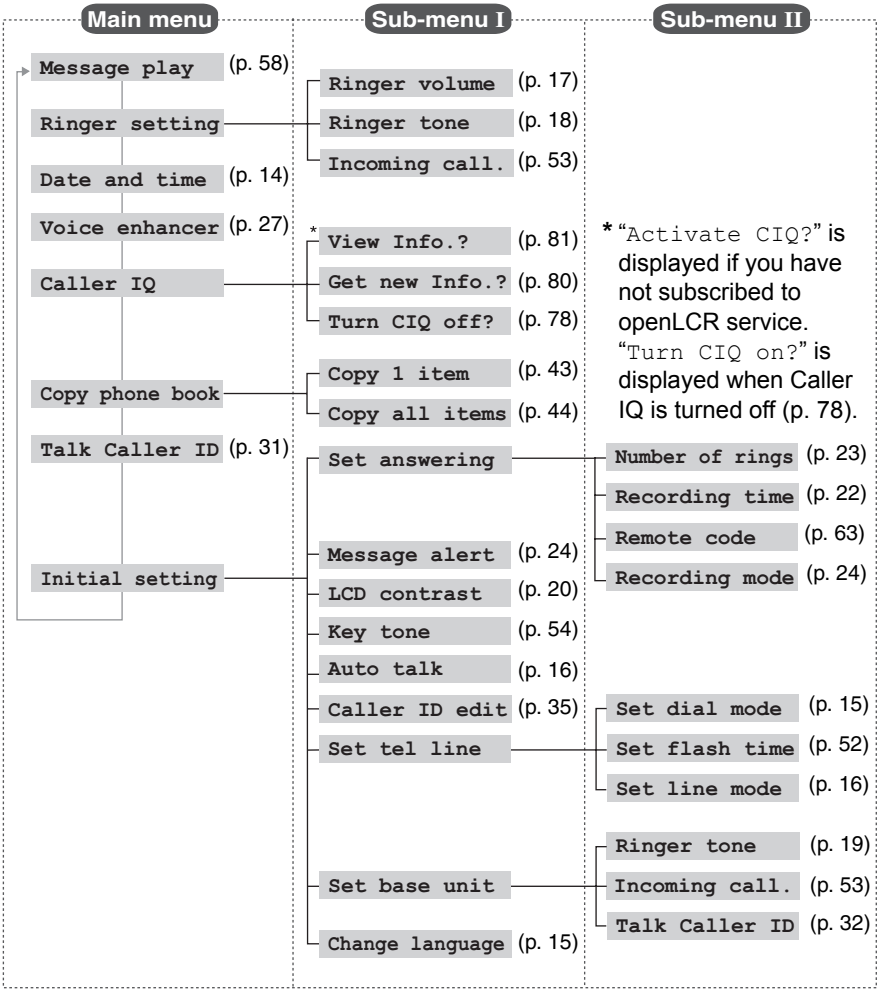
6 Press **[OFF]** to exit programming mode.

- To go back to the previous menu, press **Back**, or press **Select** while "---(Go back)----" is displayed. If you press this key in the main menu, the unit will exit programming mode.
- After programming is complete, the display will return to the main menu or the sub-menu depending on which menu the selected item is located. (See the menu table on page 13.)
- You can exit programming mode at any time by pressing **[OFF]**.
- If you do not press any buttons for 60 seconds, the handset will exit programming mode.
- If the unit detects a problem, an error message will be displayed (p. 71–72) and/or error beeps will sound.

Function Menu Table Handset

You can use the following functions to customize your unit. See the corresponding pages for function details.

- After pressing **[MENU]**, you can also program menu items directly by pressing (**[0]** to **[9]**, **[✳]** and **[#]**) instead of using the soft keys (p. 69–70).



* "Activate CIQ?" is displayed if you have not subscribed to openLCR service. "Turn CIQ on?" is displayed when Caller IQ is turned off (p. 78).

- If you program the date and time, dialing mode, flash time, line mode, number of rings, recording time, recording mode or the remote code using one of the handsets, you will not need to program the same item using another handset.

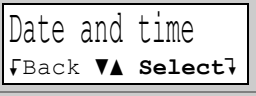
Programmable Settings

Date and Time Handset

We recommend you set the date and time so that the unit will announce the day and time each message was recorded when you play back messages.

1 Press **[MENU]**.

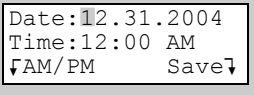
2 Scroll to "Date and time" by pressing **[▼]** or **[▲]**, then press **Select**.



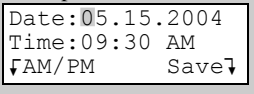
3 ① Enter 2 digits each for the month, day, and year. (Ex. To set May 15, 2004, enter "05 15 04".)

② Enter 4 digits for the time (hour and minute). (Ex. To set 9:30, enter "0930".)

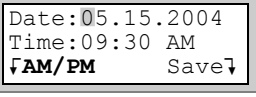
- If you enter a wrong number, press **[▼]** or **[▲]** to move the cursor to the incorrect number. Enter the correct number.



Example



4 Select "AM" or "PM" by pressing **AM/PM**.



5 Press **Save**.

- The date and time are set and "◴" disappears from the base unit display.
- If the handset beeps 3 times, the date and time were not set correctly. Start again from step 3.

6 Press **[OFF]**.

- When entering the time in step 3, you cannot enter numbers greater than 12. **Do not use military time.** (To set 13:00 hours, enter "0100", then select "PM" in step 4.)

The date and time may be incorrect after a power failure. When "◴" flashes on the base unit display, set the date and time again.

To confirm the date and time, repeat steps 1 and 2 above.

- The current date and time are displayed. When finished, press **[OFF]**.

For Caller ID service users (p. 30)

- When a call is received, Caller ID information adjust the date and time if the time is incorrect.
- Caller ID information will automatically adjust the date and time for daylight saving time.
- If the date and time have not previously been set, Caller ID information will not adjust the date and time.

Display Language Handset

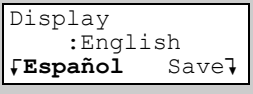
You can select either “English” or “Spanish” as the display language. The factory preset is “English”.

1 Press **[MENU]**.

2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **Select**.

3 Scroll to “Change language” by pressing **[▼]** or **[▲]**, then press **Select**.

4 To change from English to Spanish, press **Español**.
To change from Spanish to English, press **English**.
- The display changes to the selected language.
- You can also select a language by pressing **[▼]** or **[▲]**.



5 When Spanish is selected, press **Salvar**, then press **[OFF]**.
When English is selected, press **Save**, then press **[OFF]**.

- If you select a language you cannot read, change the display language again using direct commands (p. 70).

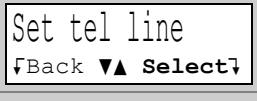
Dialing Mode Handset

If you have touch tone service, set the dialing mode to “Tone”. For rotary or pulse service, set to “Pulse”. The factory preset is “Tone”.

1 Press **[MENU]**.

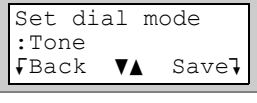
2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **Select**.

3 Scroll to “Set tel line” by pressing **[▼]** or **[▲]**, then press **Select**.



4 Press **Select** at “Set dial mode”.

5 Select “Pulse” or “Tone” by pressing **[▼]** or **[▲]**.



6 Press **Save**, then press **[OFF]**.

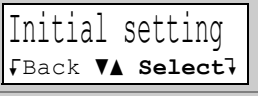
Programmable Settings

Line Mode Handset

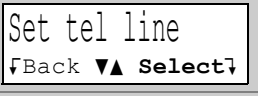
The line mode is preset to “B” and generally should not be adjusted. If “Line in use” on the handset and “ LINE IN USE ” on the base unit are not displayed properly, the line mode selection is incorrect. Set line mode to “A”.

1 Press **[MENU]**.

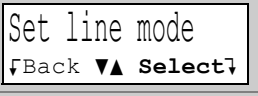
2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **Select**.



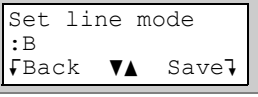
3 Scroll to “Set tel line” by pressing **[▼]** or **[▲]**, then press **Select**.



4 Scroll to “Set line mode” by pressing **[▼]** or **[▲]**, then press **Select**.



5 Select “A” or “B” by pressing **[▼]** or **[▲]**.



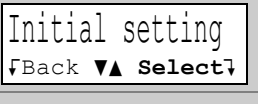
6 Press **Save**, then press **[OFF]**.

Auto Talk Handset

The Auto Talk feature allows you to answer calls by simply lifting the handset off the base unit or charger. You do not need to press **[ ]** or **[ ]**. The factory preset is OFF.

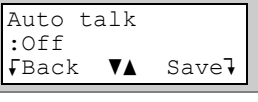
1 Press **[MENU]**.

2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **Select**.



3 Scroll to “Auto talk” by pressing **[▼]** or **[▲]**, then press **Select**.

4 Select “On” or “Off” by pressing **[▼]** or **[▲]**.



5 Press **Save**, then press **[OFF]**.

- In order to view Caller ID information after you lift the handset to answer a call, leave the Auto Talk feature turned off.

1 P

2 Scro
or **[▲]**,

3 Press **Sele**

4 Select the desire
[▼] or **[▲]**.
- The volume will chang
- The number of steps ind
- **To turn the ringer off,** pr
"`Off ?`" is displayed.

5 Press **Save**.

- If the handset ringer is turned off, "`Rin`
use. If the handset is off the base unit or
new messages (p. 58), "`Ringer off`" is
- You can adjust the ringer volume while an
while the handset is ringing.

Temporary ringer off
While the handset is ringing for a
temporarily by pressing **[OFF]**
a call is received.

Programmable Settings

Base unit ringer volume Base Unit

Make sure the base unit is not being used.

To set the ringer volume to high (preset), medium, or low, press **VOLUME [∨]** or **[∧]**.

- To increase volume, press **VOLUME [∧]**.
  To decrease volume, press **VOLUME [∨]**.
- To stop ringing, press **[STOP]**.

To turn the ringer off, press and hold **VOLUME [∨]** until 2 beeps sound.

- "RINGER OFF" is displayed.

To turn the ringer on, press **VOLUME [∨]** or **[∧]**.

- The base unit will ring at the low level.
- You can adjust the ringer volume while an outside call is ringing.
  Press **VOLUME [∨]** or **[∧]** while the base unit is ringing.
  To turn the ringer off, press and hold **VOLUME [∨]** until 2 beeps sound.
  "RINGER OFF" is displayed.

Ringer Tone

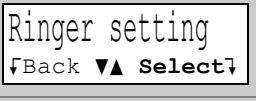
You can set the handset and base unit ringers to use one of 7 ringer patterns for outside calls. "Tone 1" to "Tone 3" are bell ringer patterns. "Melody 1" to "Melody 4" are preset melody patterns. The factory preset is "Tone 1".

- You cannot change the ringer tone for intercom calls.
- If you subscribe to a Distinctive Ring Service (such as IDENTA-RING) from your telephone company with 2 or 3 consecutive rings, select a bell ringer pattern (Tone 1 to 3). If you select a melody pattern, you will not be able to distinguish lines by their ringers.
- If you select one of the melody ringer patterns, the ringer will continue to sound for several seconds if:
  — the caller hangs up before you answer the call, or
  — another person answers the call using another phone connected on the same line.

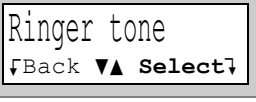
Handset ringer tone Handset

1 Press **[MENU]**.

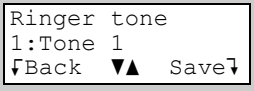
2 Scroll to "`Ringer setting`" by pressing **[▼]** or **[▲]**, then press **`Select`**.



3 Scroll to "`Ringer tone`" by pressing **[▼]** or **[▲]**, then press **`Select`**.



4 Select the desired ringer tone by pressing **[▼]** or **[▲]**.
- The handset will ring and the ringer tone will change. If the ringer volume has been turned off, the handset will not ring (p. 17).
- You can also select the ringer tone by pressing **[1]** to **[7]**.



5 Press **Save**, then press **[OFF]**.

Base unit ringer tone (use either the handset or the base unit)

Base Unit

Make sure the base unit is not being used.

Press **VOLUME [∨]** or **[∧]**, then select the desired ringer tone by pressing **[1]** to **[7]**.

[1] to **[3]** : Bell ringer patterns **[4]** to **[7]** : Melody patterns

- After pressing **VOLUME [∨]** or **[∧]**, the base unit will ring using the current ringer tone.
- The base unit will ring and the ringer tone will change.
- To stop ringing, press **[STOP]**.

Setting the base unit ringer tone by using the Handset

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.

3 Scroll to "Set base unit" by pressing **[▼]** or **[▲]**, then press **Select**.

4 Press **Select** at "Ringer tone".

5 Select the desired ringer tone by pressing **[▼]** or **[▲]**.
- The base unit will ring and the ringer tone will change. If the base unit ringer volume has been turned off, the base unit will not ring (p. 18).
- You can also select the ringer tone by pressing **[1]** to **[7]**.

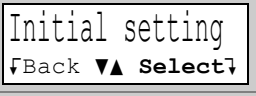
6 Press **Save**, then press **[OFF]**.

LCD Contrast Handset

There are 6 levels of LCD contrast. The factory preset is “level 3”.

1 Press **[MENU]**.

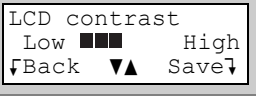
2 Scroll to “`Initial setting`” by pressing **[▼]** or **[▲]**, then press **`Select`**.



3 Scroll to “`LCD contrast`” by pressing **[▼]** or **[▲]**, then press **`Select`**.

4 Select the desired contrast by pressing **[▼]** or **[▲]**.
- The contrast will change.

Ex. Level 3



5 Press **`Save`**, then press **[OFF]**.

Preparing the Answering System

Greeting Message Base Unit

You can record a personal greeting message of **up to 2 minutes**. If you do not record your own message, one of two pre-recorded greetings will be played for callers (p. 22).

The total recording time of all messages (greeting, incoming and memo) is **about 16 minutes**.
We recommend you record **a brief greeting message** in order to leave more time for recording new messages.

- You can use the enhanced recording mode for clearer sound, if necessary (p. 24).

To record a greeting message

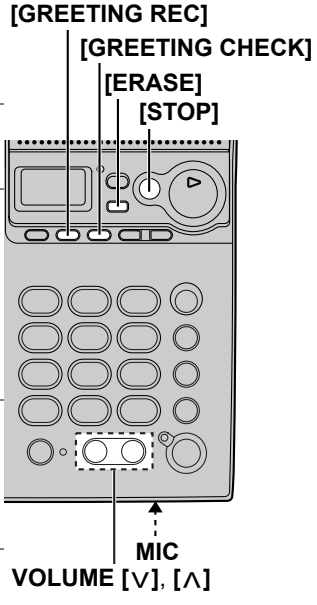
Sample greeting message
"Hello, this is (your name and/or number). Sorry, I cannot take your call. Please leave a message after the beep. Thank you."

1 Press **[GREETING REC]**.
- "To record greeting, press RECORD again" is heard.

2 Within 10 seconds, press **[GREETING REC]** again to record your greeting.

3 After the long beep, talk clearly, about 20 cm (8 inches) away from the **MIC** (microphone).
- The elapsed recording time is displayed.
- If you record for over 2 minutes, the unit will stop recording.

4 When finished, press **[GREETING REC]** or **[STOP]**.
- To change the greeting, start again from step 1.



- If "E" is displayed, 6 beeps sound and "Your greeting was not recorded. Record your greeting again." is announced, start again from step 1.

To adjust the speaker volume, press **VOLUME [∨]** or **[∧]** during playback.

- 9 levels (0–8) are available while using the Answering System. The level is displayed on the base unit.

To review the greeting

Press **[GREETING CHECK]**.

To erase the greeting

Press **[GREETING CHECK]**, then press **[ERASE]** while the recorded message is being played.

- The unit will answer calls with a pre-recorded greeting (p. 22).

Pre-recorded greeting

If you do not record a greeting (p. 20, 21), one of two greetings will be played when a call is received, depending on the caller's recording time (see below).

To review the pre-recorded greeting, press **[GREETING CHECK]**.

• A pre-recorded greeting will be played as follows:

■ When the recording time is set to "1 minute", "2 minutes" or "3 minutes":
"Hello, we are not available now. Please leave your name and phone number after the beep. We will return your call."

• If recording time runs out, the unit will automatically switch to the "Greeting only" mode (see below), and no new messages will be recorded.

■ When the recording time is set to "Greeting only":
"Hello, we are not available now. Please call again. Thank you for your call."

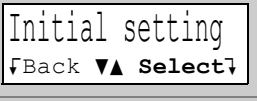
Flash Memory Message Backup (Message storage)
Messages stored in memory will not be affected by power failures. All messages are saved until you erase them.

Caller's Recording Time Handset

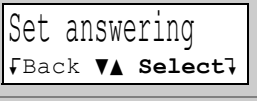
You can select "1 minute", "2 minutes", "3 minutes" or "Greeting only" for the caller's recording time. The factory preset is "3 minutes".

1 Press **[MENU]**.

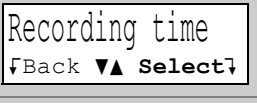
2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.



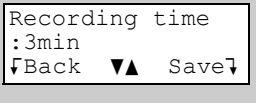
3 Press **Select** at "Set answering".



4 Scroll to "Recording time" by pressing **[▼]** or **[▲]**, then press **Select**.



5 Select the recording time by pressing **[▼]** or **[▲]**.
• You can also select the recording time by pressing **[1]**, **[2]**, **[3]** or **[0]** (Greeting only).



6 Press **Save**, then press **[OFF]**.

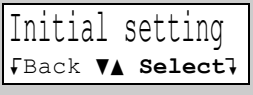
If you select "Greeting only", the unit will answer calls with the greeting message, and then hang up. The unit will not record any incoming messages. The base unit will display "go" instead of the number of messages.

Number of Rings Handset

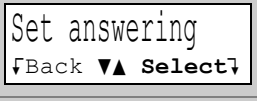
You can select the number of times the unit rings before the Answering System answers a call, from "2" to "7" or "Toll saver"*. The factory preset is "4".

1 Press **[MENU]**.

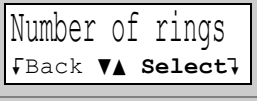
2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.



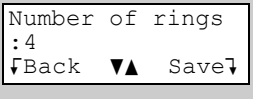
3 Press **Select** at "Set answering".



4 Press **Select** at "Number of rings".



5 Select the number of rings by pressing **[▼]** or **[▲]**.
- You can also select the number of rings by pressing **[0]** (Toll saver*), or **[2]** to **[7]**.



6 Press **Save**, then press **[OFF]**.

***Toll saver**
When you call the unit from a remote operation, the number of rings will tell you if there are any new messages. If the unit answers on the 2nd ring, there is at least one new message. If the unit answers on the 4th ring, there are no new messages. To save the toll charges for the call, hang up immediately when you hear the 3rd ring. The 3rd ring indicates that there are no new messages.

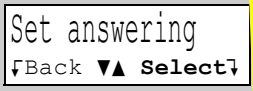
Recording Mode Handset

Two recording modes are available. The factory preset is “Standard recording (16min)”, which provides more recording time (16min) and standard sound qualit “Enhanced recording (8 min)” provides less recording time (8 min) but clearer sound quality.

1 Press **[MENU]**.

2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **Select**.

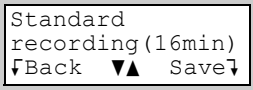
3 Press **Select** at “Set answering”.



4 Scroll to “Recording mode” by pressing **[▼]** or **[▲]**, then press **Select**.

5 Select the recording mode by pressing **[▼]** or **[▲]**.

- You can also select the recording mode by pressing **[1]** (Standard) or **[2]** (Enhanced).



6 Press **Save**, then press **[OFF]**.

Message Alert Handset

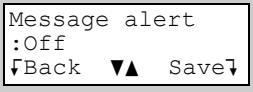
You can select whether or not the Ringer/Message Alert indicator on the handset will flash slowly when new messages have been recorded (p. 58). The factory preset is OFF.

1 Press **[MENU]**.

2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **Select**.

3 Scroll to “Message alert” by pressing **[▼]** or **[▲]**, then press **Select**.

4 Select “On” or “Off” by pressing **[▼]** or **[▲]**.



5 Press **Save**, then press **[OFF]**.

- The Ringer/Message Alert indicator will not flash for new messages while the handset is in use.
- The Ringer/Message Alert indicator acts both as a ringer indicator and as a message alert indicator. This indicator will flash rapidly when a call is received whether this feature is on or off.
- Battery operating time will be shortened when using this feature (p. 11).

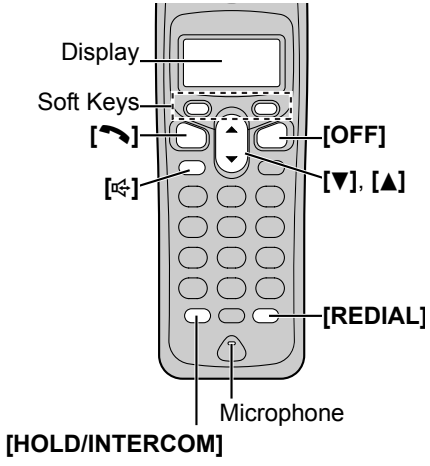
Making Calls

Using the Handset Handset

1 Press **[ ]**.
- "Talk" is displayed.

2 Dial a phone number.
- The dialed number is displayed.
- After a few seconds, the display will show the length of the call.

3 To hang up, press **[OFF]** or place the handset on the base unit or charger.



To have a hands-free phone conversation

1 Press **[ ]**.
- "SP-phone" is displayed.

2 Dial a phone number.
- The dialed number is displayed.
- After a few seconds, the display will show the length of the call.

3 When the other party answers, talk into the microphone.

4 To hang up, press **[OFF]** or place the handset on the base unit or charger.

Hands-free Digital Duplex Speakerphone

For best performance, please note the following:
- Talk alternately with the other party in a quiet room.
- If you or the other party has difficulty hearing, press **[▼]** to decrease the speaker volume.
- While talking using **[ ]**, you can switch to a hands-free phone conversation by pressing **[ ]**. To switch back to the receiver, press **[ ]**.

To dial after confirming the entered number

1 Enter a phone number.

- If you misdial, press **Clear**. Enter the correct number.
- If a pause is required when dialing, press **Pause** where needed (p. 52).
- To cancel, press **[OFF]**.

2 Press **[ ]** or **[ ]**.

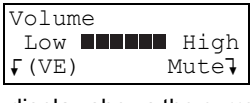
3 To hang up, press **[OFF]** or place the handset on the base unit or charger.

To adjust the receiver/ speaker volume during a conversation

There are 3 volume levels for the receiver and 6 volume levels for the speaker.

To increase volume, press **[▲]**.
To decrease volume, press **[▼]**.

Ex. Receiver volume: High
Speaker volume: Level 6



- The display shows the current volume setting.
- If you try to increase/decrease volume when it is at the maximum/ minimum level, the handset will beep 3 times.

To redial the last number dialed

Press **[ ]** or **[ ]**, then press **[REDIAL]**.

To redial using the redial list (Memory Redial)

The last 5 phone numbers dialed are stored in the redial list.

1 Press **[REDIAL]**.

- The last number dialed is displayed.

2 Scroll to the desired number by pressing **[▼]** or **[▲]**.
- You can also scroll down through the list by pressing **[REDIAL]**.
- To exit the list, press **[OFF]**.

3 Press **[ ]** or **[ ]**.

- **To erase an item,** scroll to the item then press **Erase**.
- If "No items stored" is displayed, the list is empty.

To put a call on hold

1 Press **[HOLD/INTERCOM]** during a conversation.
- "Line on hold." is displayed.
- To transfer the call to the base unit or another handset, see pages 48– 49.

2 Press **[HOLD/INTERCOM]** again.
- "Hold" is displayed.

To return to the call, press **[ ]** or **[ ]**.

- The base unit user can also take the call by pressing **[SP-PHONE]**. Another handset user can also take the call by pressing **[ ]** or **[ ]**.
- If another phone is connected on the same line (p. 9), you can also take the call by lifting its handset.
- If a call is kept on hold for 6 minutes, an alarm tone will start to sound and the Ringer/Message Alert indicator will start to flash rapidly. After 4 additional minutes on hold, the call will be disconnected.

g a
an

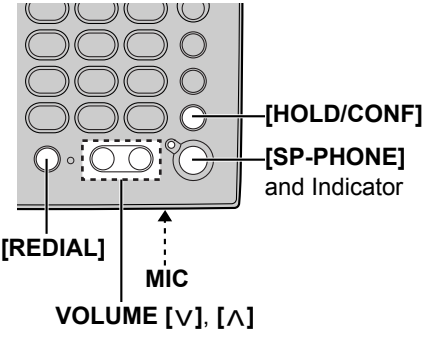
Using the Base Unit Base Unit

1 Press **[SP-PHONE]**.
- The SP-PHONE indicator lights.

2 Dial a phone number.

3 When the other party answers, talk into the **MIC** (microphone).

4 To hang up, press **[SP-PHONE]**.
- The indicator light goes out.



- To switch to the handset while using the base unit speakerphone:
  — If the handset is off the base unit or charger, press **[ ]** or **[ ]** on the handset, then press **[SP-PHONE]** on the base unit.
  — If the handset is on the base unit, just lift up.

Hands-free Digital Duplex Speakerphone
For best performance, please note the following:
- **Talk alternately with the other party in a quiet room.**
- If you or the other party has difficulty hearing, press **VOLUME [∨]** to decrease the speaker volume.

To adjust the speaker volume during a conversation

To increase volume, press **VOLUME [∧]**.
To decrease volume, press **VOLUME [∨]**.
- There are 8 volume levels. If you try to increase/decrease volume when it is at the maximum/minimum level, the base unit will beep 3 times.

To redial the last number dialed

Press **[SP-PHONE]**, then press **[REDIAL]**.

To put a call on hold

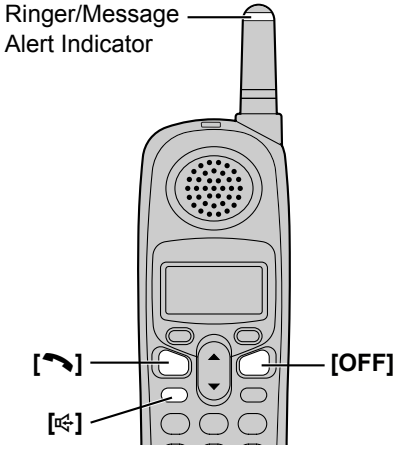
Press **[HOLD/CONF]** during a conversation.
- The SP-PHONE indicator flashes.

To return to the call, press **[SP-PHONE]**.
- The handset user can also take the call by pressing **[ ]** or **[ ]**.
- If another phone is connected on the same line (p. 9), you can also take the call by lifting its handset.
- If a call is kept on hold for 6 minutes, an alarm tone will start to sound. After 4 additional minutes on hold, the call will be disconnected.

Answering Calls

When a call is received, the unit rings, "Incoming call" is displayed, and the Ringer/Message Alert indicator on the handset and " LINE IN USE " on the base unit flash rapidly.
If you subscribe to Caller ID, see page 30.

Handset



1 Press **[ ]** or **[ ]**.
- You can also answer a call by pressing any button except **[▼]**, **[▲]** or **[OFF]**.

2 To hang up, press **[OFF]** or place the handset on the base unit or charger.

Auto Talk
If the Auto Talk feature is turned on (p. 16), you can answer a call by simply lifting the handset off the base unit or charger.

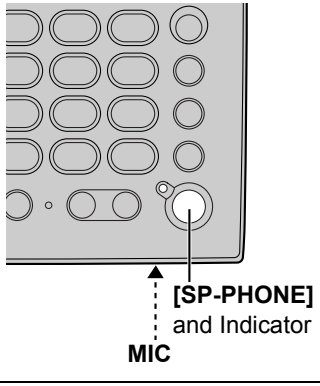
Temporary ringer off
You can turn the ringer off temporarily by pressing **[OFF]**, while the handset is ringing for an outside call. The handset will ring again as normal the next time a call is received.

Base Unit

1 Press **[SP-PHONE]**.

2 Talk into the **MIC**.

3 To hang up, press **[SP-PHONE]**.



- **To transfer the call to another person, see pages 48– 49.**
- If the ringer volume is turned off, the unit will not ring (p. 17, 18).

Caller ID Service

This unit is compatible with Caller ID services offered by your telephone company. If you subscribe to Caller ID, caller names and phone numbers will be displayed and recorded in the Caller List.

How Caller ID information is displayed and announced

When a call comes in, the unit will ring and Caller ID information will be received. The handset display will show the caller's information, then the handset and base unit will announce the displayed name (ex. "Call from ROBINSON, TINA") following every ring (**Talking Caller ID feature,** p. 31).

Example

- After you answer the call, the display will show the length of the call.
- The handset and base unit announce the caller's name repeatedly until the call is answered.

- If the unit does not receive Caller ID information, one of the following will be displayed:

Display	Meaning
`Out of area`	The caller dialed from an area which does not provide Caller ID service.
`Private caller`	The caller requested not to send his/her information.
`Long distance`	The caller made a long distance call.

- Depending on the radio communications with the base unit, the handset may not display Caller ID information immediately after the first ring.
- If your unit is connected to a PBX which does not support Caller ID, you cannot access Caller ID service.
- Name display service may not be available in some areas. For further information, please contact your telephone company.
- If you subscribe to both Caller ID and Call Waiting with Caller ID services (CWID), when a second call is received while talking, a call waiting tone will be heard and the second caller's information will be displayed on the handset in use (p. 51). Contact your telephone company for details about availability in your area, and to verify that CWID is activated on your telephone line.

Talking Caller ID

To use this feature, you need to subscribe to Caller ID. For further information, please contact your telephone company.

- If the unit does not receive Caller ID information, the unit will announce "Call from out of area", "Call from private caller", or "Call from long distance". If a call is received from an area where name display service is not available, "Number available" will be announced.
- If the ringer volume of the handsets and base unit is off, caller names will not be announced. The announcement is heard at the handset or base unit ringer volume (p. 17, 18).
- If this feature is not turned on, caller names will not be announced (see below, p. 32).
- If an outside call is received while on an intercom call between the handset and base unit, the other handset will ring, but the caller's name will not be announced.
- If you have Call Waiting service, the second caller's information will be displayed but not announced (For Call Waiting Service Users, page 51).
- Name pronunciation may vary. Name pronunciation quality is based on names most commonly used in the United States.
- The unit will announce each letter of abbreviations, such as "Co." and "Inc.".
- Caller ID supports names of up to 15 letters. If the caller's name has more than 15 letters, the name will not be displayed or announced correctly.
- If you subscribe to a Distinctive Ring Service (such as IDENTA-RING) from your telephone company with 2 or 3 consecutive rings, your unit may mute one or more of the rings in order to announce the name of the caller.

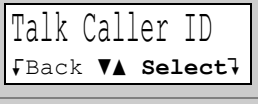
To turn Talking Caller ID on or off

You can turn Talking Caller ID on or off for the handset and base unit separately. If this feature is off, the unit will not announce caller names. The factory preset is ON.

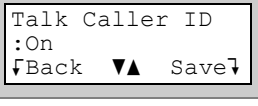
Handset Talking Caller ID feature Handset

1 Press **[MENU]**.

2 Scroll to "Talk Caller ID" by pressing **[▼]** or **[▲]**, then press **Select**.



3 Select "Off" or "On" by pressing **[▼]** or **[▲]**.



4 Press **Save**, then press **[OFF]**.

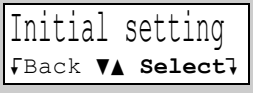
Caller ID Service

Base unit Talking Caller ID feature Handset

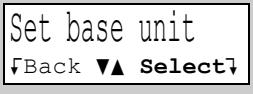
This feature must be turned on or off for the base unit by using the handset.

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.

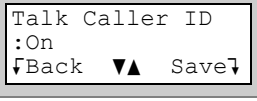


3 Scroll to "Set base unit" by pressing **[▼]** or **[▲]**, then press **Select**.



4 Scroll to "Talk Caller ID" by pressing **[▼]** or **[▲]**, then press **Select**.

5 Select "Off" or "On" by pressing **[▼]** or **[▲]**.

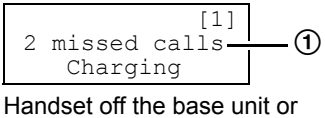


Using the Caller List

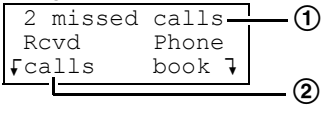
The unit can record information up to 50 different callers and store this information in the Caller List. Caller information is sorted by the most recent call to the oldest. When the 51st call is received, the information from the 1st call is deleted.

The unit will also tell you how many calls you missed while you were out or unavailable to answer the phone.

Handset on the base unit or charger



Handset off the base unit or charger



① The display will show the number of calls you missed.

② Press **Rcvd calls** to review other calls logged in the Caller List.

- If there are no items in the Caller List, "Rcvd calls" will not be displayed.
- After viewing the missed call entries, "missed calls" will disappear from the display.

- When new messages have been recorded (p. 58), "New message" will be displayed in place of missed calls display.

Viewing the Caller List Handset

1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.

Ex. 2 calls missed.

```
 2 missed calls
 Rcvd      Phone
↴calls     book ↴
```

```
 2 missed calls
 ▼▲=Scroll list
↴All erase
```

2 To search from the most recent call, press **[▼]**. To search from the oldest call, press **[▲]**.

- The caller's name, number and the time and date of the call are displayed. Name and phone number are alternately displayed as shown on the right.

Example

```
SMITH,JACK
 3:10P JUN.29
↴Erase   Select↴
```

↕

```
1-555-333-4444
 3:10P JUN.29
↴Erase   Select↴
```

3 Press **[OFF]** to exit the list.

- If there is no name information for a caller, the display will only show the phone number.
- Each handset has its own Caller List. If you viewed the Caller List or answered a call on one handset, the same information in the other handset will be displayed as "missed".
- If you do not press any buttons for 60 seconds, the unit will exit the Caller List.

What "✓" means

"✓" indicates you have already viewed this calling information or answered the call. If the same caller calls again, the call entry with the "✓" will be replaced with the new call entry.

```
SMITH,JACK
 3:10P JUN.29 ✓
```

If a caller calls more than once

The number of times the same caller called is displayed ("×2" to "×9"). The date and time of the most recent call will be recorded. After viewing a caller's information, "×2" to "×9" will be replaced with "✓".

Ex. Called 2 times.

```
TURNER,CINDY
11:20A JUN.12 ×2
```

Calling Back from the Caller List Handset

1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.

2 Scroll to the desired caller by pressing **[▼]** or **[▲]**.

3 Press **[ ]** or **[ ]**.

- The phone number is dialed.

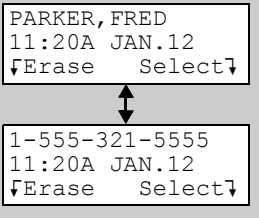
- In some cases, you may have to edit the number before dialing (p. 34). (Ex. You may have to delete "1" and the area code.)
- If a phone number is not displayed in the caller information, you cannot call that caller back from the Caller List.

Editing the Caller's Phone Number Handset

You can edit a phone number in the Caller List by removing its area code and/or the long distance code "1".
Once you call back an edited number, this unit can automatically edit incoming phone numbers from the same area code in the Caller List and each time you receive a call (**Caller ID Number Auto Edit**, page 35).

1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.

2 Scroll to the desired caller by pressing **[▼]** or **[▲]**.



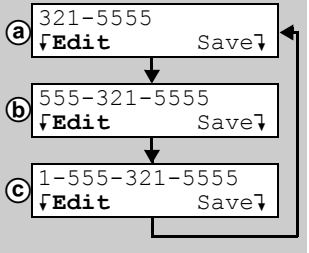
3 Press **Select**.

4 Press **Edit** repeatedly until the number is shown in the desired format.

- Each time you press **Edit**, the number is rearranged into one of 3 patterns.

ⓐ [Phone no.]
ⓑ [Area code]–[Phone no.]
ⓒ 1–[Area code]–[Phone no.]

- The order in which patterns ⓐ– ⓒ are displayed depends on how the telephone number is displayed in step 2.



5 To call the edited number, press **[ ]** or **[ ]**.

- If Caller ID Number Auto Edit is turned on (factory preset is on), phone numbers with the same area code as the number you edited will now be edited in the Caller List and each time you receive a call.
- You can press **[OFF]** immediately after pressing **[ ]** or **[ ]** if you wish to activate the Auto Edit feature without actually dialing the number you just edited.

To save the edited number into the phone book, press **Save**.

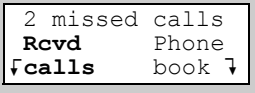
- If there is no name information, see "Storing Caller Information in the Phone Book" on page 36, from step 4.
- Even if the Auto Edit feature is turned on, this feature will not be activated by saving the edited number in the phone book.

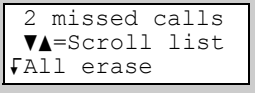
Storing Caller Information in the Phone Book

Handset

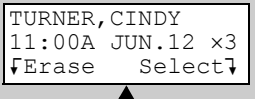
Caller names and phone numbers that are in the handset Caller List can be stored in each handset's phone book.

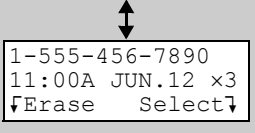
1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.





2 Scroll to the desired caller by pressing **[▼]** or **[▲]**.

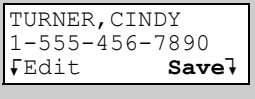




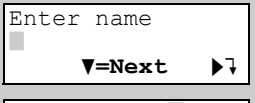
3 Press **Select**.

- If the number requires editing, see page 34.

4 Press **Save**.



- If there is no name information for the caller, "Enter name" will be displayed.
  - —You can enter a name by performing the following steps:
    (1) enter the name (p. 39),
    (2) press **[▼]**, and
    (3) press **Save**.
  - —If a name is not required, press **[▼]**, then press **Save**.
- To continue storing other items, repeat from step 2.
- To exit programming mode, press **[OFF]**.

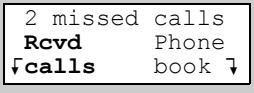


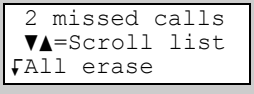
- You cannot store Caller List item in the phone book if a phone number is not displayed.

Erasing Caller Information Handset

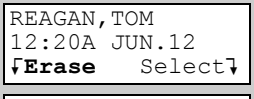
To erase a specific caller

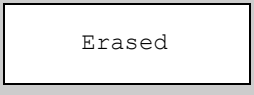
1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.





2 Scroll to the desired caller by pressing **[▼]** or **[▲]**, then press **Erase**.
- To erase other items, repeat step 2.
- To exit the Caller List, press **[OFF]**.



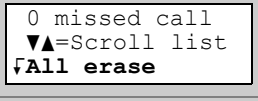


To erase all entries

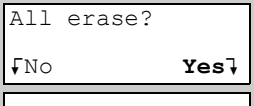
Before erasing all entries, make sure that you have viewed all missed calls.

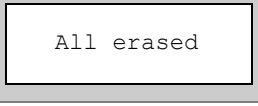
1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.

2 Press **All erase**.



3 Press **Yes**.
- All entries in your Caller List are erased.





- To cancel erasing, press **No** after step 2.

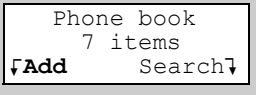
Phone Book

The handset can store up to 50 names and phone numbers in its phone book. You can make a call by selecting a name or number from the phone book, and copy phone book items from one handset to another (p. 43–44).

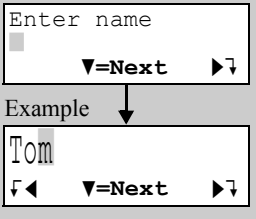
Storing Names and Numbers Handset

1 Press **Phone book**.

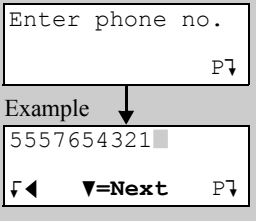
2 Press **Add**.
- The display will show the number of stored items.



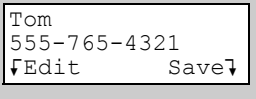
3 Enter a name of up to 16 characters with the dialing buttons (**[0]** to **[9]**) (p. 39), then press **[▼]**.
- If a name is not required, press **[▼]** then go to step 4.



4 Enter a phone number of up to 32 digits.
- Each time you press ◀, a digit is erased. To erase all of the digits, press and hold ◀.
- If a pause is required when dialing, press **P**. A pause is stored in a phone number as one digit (p. 52).



5 Press **[▼]**.
- If you want to change the name, press **Edit**. The display returns to step 3. Change the name.
- If you want to change the number, press **[▲]**. The display returns to step 4. Change the number.



6 Press **Save**.
- To continue storing other items, repeat from step 2.

7 Press **[OFF]**.

- To store numbers for calling card access (see “Chain Dial” on page 41), we recommend you add pauses after each item. Storing pauses with numbers will prevent misdialing (p. 52). The delay time necessary will depend on your telephone company.

Selecting characters to enter names

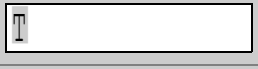
Enter names using the dialing buttons. Press each button until the desired character is displayed.

• Pressing each button selects a character in the order shown below.

Keys	Characters	Keys	Characters
[1]	# & ' ( ) ∗ , – . / 1	[6]	m n o M N O 6
[2]	a b c A B C 2	[7]	p q r s P Q R S 7
[3]	d e f D E F 3	[8]	t u v T U V 8
[4]	g h i G H I 4	[9]	w x y z W X Y Z 9
[5]	j k l J K L 5	[0]	0 Space
◀	Erases the character to the left.		
▶	Moves the cursor to the right. (To enter another character using the same number key, move the cursor to the next space.)		

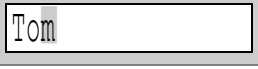
For example, to enter "Tom":

1 Press **[8]** four times.



2 Press **[6]** three times, then press ▶ to move the cursor.

3 Press **[6]** once.



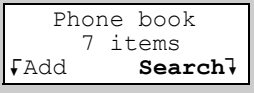
If you make a mistake when entering a name or number

Use ◀ to erase the incorrect character. Each time you press ◀, a character is erased. Re-enter the correct character. To erase all characters, press and hold ◀.

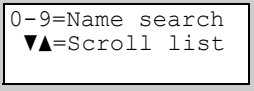
Dialing from the Phone Book Handset

1 Press **Phone book**.

2 Press **Search**.

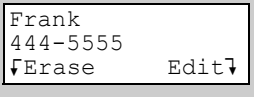


3 Scroll to the desired item. To scroll down, press **[▼]**. To scroll up, press **[▲]**.



Phone book items are sorted in the following order:	
1	Alphabet letters (Alphabetical)
2	Space & ' ( ) , – . /
3	Numbers 0 to 9
4	# *
5	Telephone numbers (If no name is stored)

4 Press **[ ]** or **[ ]**.
- The displayed phone number is dialed.



- If "No items stored" is displayed in step 1, the phone book is empty.
- To exit the phone book, press **[OFF]**.
- To view a phone number over 16 digits long, repeat steps 1 to 3, then press **Edit** and then **[▼]**. When finished, press **[OFF]**.
- To quickly search the desired item, press **[▼]** or **[▲]** after step 1.

To search for a name by initial

1. Press **Phone book**.
2. Press **Search**.
3. Press the dialing button for the first letter of the desired name until any name with the same initial is displayed (see the Index on page 41).
   Ex. To find "Frank", press **[3]** repeatedly until the first item under "F" is displayed.
   - If there are no items beginning with the character you selected, the first item in the next alphabetical index will be displayed.
4. Press **[▼]** repeatedly until the desired name is displayed.

Index table

Keys	Index	Keys	Index
[1]	Symbols, 1	**[6]**	M, N, O, 6
[2]	A, B, C, 2	**[7]**	P, Q, R, S, 7
[3]	D, E, F, 3	**[8]**	T, U, V, 8
[4]	G, H, I, 4	**[9]**	W, X, Y, Z, 9
[5]	J, K, L, 5	**[0]**	0, Space

Chain Dial Handset

You can dial a combination of phone book or manual key pad entries while making a call. This feature can be used, for example, to first automatically dial a calling card access number that you have stored in the phone book, then manually or automatically dial your PIN and then automatically dial the destination number from the phone book.

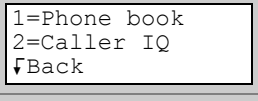
Ex. Using a long distance calling card

- To prevent misdialing, we recommend you add pauses where needed when storing numbers. For example, add pauses after a calling card access number and your PIN when storing in the phone book (p. 38).

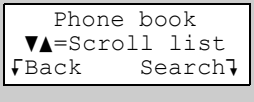
1. Search and dial from phone book: 1-800-012-3456 (Calling card access number).
   - The voice guidance may be announced.
2. Search and dial from phone book: 1234 (Calling card PIN).
3. Search and dial from phone book: 1-555-012-3456 (Destination number).

1 **While you are on a call;**
Press **[MENU]**.

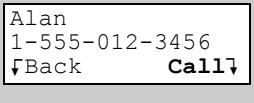
2 Press **[1]** to select "1=Phone book".



3 Search for the desired item by pressing **[▼]** or **[▲]**.
- To search for an item by initial, see page 40.



4 Press **Call**.
- The phone number is dialed.
- If required, repeat steps 1 to 4 for any remaining numbers.



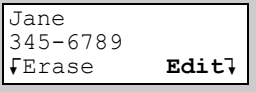
- If you have rotary or pulse service, you need to press **[✳]** before pressing **[MENU]** in step 1 to change the dialing mode temporarily to tone.

Editing an Item in the Phone Book Handset

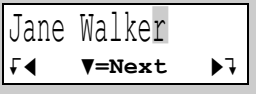
1 Press **Phone book**.

2 Press **Search**.

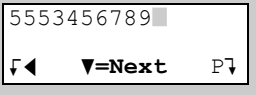
3 Scroll to the desired item by pressing **[▼]** or **[▲]**, then press **Edit**.
- To search for the item by initial, see page 40.



4 Edit the name (p. 39), then press **[▼]**.
- If you do not need to change the name, press **[▼]** then go to step 5.



5 Edit the phone number, then press **[▼]**.
- If you do not need to change the number, press **[▼]** then go to step 6.
- Each time you press ◀, a digit is erased. To erase all of the digits, press and hold ◀.



6 Press **Save**.
- To continue editing other items, repeat from step 3.

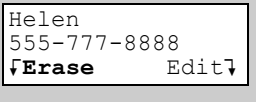
7 Press **[OFF]**.

Erasing an Item in the Phone Book Handset

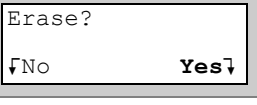
1 Press **Phone book**.

2 Press **Search**.

3 Scroll to the desired item by pressing **[▼]** or **[▲]**, then press **Erase**.
- To search for the item by initial, see page 40.



4 Press **Yes**.
- To erase other items, repeat from step 3.



5 Press **[OFF]**.

- To cancel erasing, press **No** after step 3.

Copying Items in the Phone Book Handset

You can copy one or all phone book items between two handsets. The destination handset will save the entries in its phone book.

- If an outside call is received during the phone book copy, copying will stop. You will need to re-send the item(s) later.
- After the copy has started, do not place your handset on the base unit or charger until copying finishes, otherwise copying will stop.

To copy one phone book item to another handset

Make sure the destination handset is not in use.

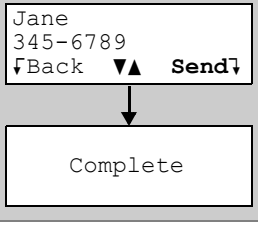
1 Press **[MENU]**.

2 Scroll to "Copy phone book" by pressing **[▼]** or **[▲]**, then press **Select**.

3 Press **Select** at "Copy 1 item".

4 Scroll to the desired phone book item by pressing **[▼]** or **[▲]**, then press **Send**.

- To search for the item by initial, see page 40.
- You can continue by copying to other items.
- The destination handset displays "Phone book Receiving" then "Phone book Received".



5 Press **[OFF]**.

To copy all of the items in your phone book to another handset

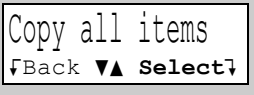
Make sure the destination handset is not in use.

1 Press **[MENU]**.

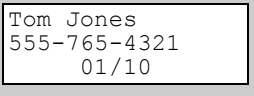
2 Scroll to "Copy phone book" by pressing **[▼]** or **[▲]**, then press **Select**.

3 Scroll to "Copy all items" by pressing **[▼]** or **[▲]**, then press **Select**.

- When all items have been copied, "Complete" is displayed.
- The destination handset displays "Phone book Receiving" then "Phone book Received".



Ex. Copying 1st item out of 10 items



4 Press **[OFF]**.

- You can exit phone book copying mode by pressing **[OFF]**.

2

OR/

During an intercom call:
- If you have difficulty hearing while using the handset speakerphone and base unit speaker, decrease the speaker volume by pressing **VOLUME [∨]** on the base unit or **[▼]** on the handset.
- If an incoming call is being received, you will hear two tones (incoming call tone, page 53) and " LINE IN USE " will flash rapidly on the base unit.
  To answer the call;
  — if using the handset, press **[OFF]**, then **[ ]** or **[ ]**.
  — if using the base unit, press **[SP-PHONE] twice**.

Answering Intercom Calls

Handset

When a handset is paged, it rings and the Ringer/Message Alert indicator flashes rapidly. The display shows the calling extension.

1 Press **[ ]**, **[ ]** or **[HOLD/INTERCOM]**.
- You can also answer a call by pressing any button except **[▼]**, **[▲]** or **[OFF]**.

Ex. Base calling

```
Call from Base
```

Ex. Handset 2 calling

```
Call from HS[2]
```

2 To disconnect the intercom, press **[OFF]**.

- If the Auto Talk feature is turned on (p. 16), you can also answer a page by simply lifting the handset off the base unit or charger.

Base Unit

When the base unit is being paged, it rings.

1 Press **[SP-PHONE]** or **[LOCATOR/INTERCOM]**.

2 To disconnect the intercom, press **[SP-PHONE]** or **[LOCATOR/INTERCOM]**.

- When the ringer volume is turned off (p. 17, 18), the handset and the base unit will ring at the low level for intercom calls.
- You cannot change the ringer tone for intercom calls.
- When the base unit user pages all handsets, only the handset user who answers first can talk with the base unit user.

Transferring a Call

You can transfer an outside call to the base unit or the handset.

From the Handset to the Base Unit

1 *Handset:*

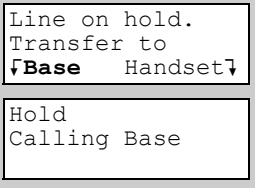
(1) During a call, press **[HOLD/INTERCOM]**.

- The call is put on hold.

(2) Press **Base**.

(3) Wait for the paged party to answer, then you can announce the transfer.

- After the paged party answers, "Intercom hold" is displayed.
- If the paged party does not answer, press **[ ]** or **[ ]** to return to the outside call.



2 *Base unit:*

Press **[SP-PHONE]** or **[LOCATOR/INTERCOM]** to answer the page.

3 *Handset:* To complete the transfer, press **[OFF]**.

From the Base Unit to the Handset

1 *Base unit:*

(1) During a call, press **[LOCATOR/INTERCOM]**.

- The call is put on hold.

(2) To page a specified handset, press its extension number **[1]** ( ) or **[2]** ( ).

To page all handsets, press **[0]**.

After the handset user answers, announce the transfer.

OR

To make a voice announcement to all handsets, press **[3]** ( ), then speak into the **MIC** when the SP-PHONE indicator stops flashing.

- If the paged party does not answer, press **[LOCATOR/INTERCOM]** to return to the outside call.

2 *Handset:*

Press **[ ]**, **[ ]** or **[HOLD/INTERCOM]** to answer the page.

- You can also answer a call by pressing any button except **[▼]**, **[▲]** or **[OFF]**.

3 *Base unit:* To complete the transfer, press **[SP-PHONE]**.

- When the base unit user calls all handsets, only the handset user who answers first can take the transferred call.

From a Handset to another Handset

1 During a call, press **[HOLD/INTERCOM]**, then page another handset by pressing **Handset**.

2 Wait for the paged party to answer, then you can announce the transfer.
- After the paged party answers, "Intercom hold" is displayed.
- The paged handset user can answer by pressing **[ ]**, **[ ]** or **[HOLD/INTERCOM]**. (Any button except **[▼]**, **[▲]** or **[OFF]** can be pressed to answer the page.)
- If the paged party does not answer, press **[ ]** or **[ ]** to return to the outside call.

3 To complete the transfer, press **[OFF]**.

- If the Auto Talk feature is turned on (p. 16), the paged handset user can also answer a page by simply lifting the handset off the base unit or the charger.
- Any user can answer a transferred call by pressing **[ ]**, **[ ]** or **[SP-PHONE]**.

Quick call transfer

You can transfer a call without waiting for the paged party to answer.

Handset

1 During a call, press **[HOLD/INTERCOM]**, then press **Base** or **Handset**.

2 Press **[OFF]** to hang up.

Base Unit

1 During a call, press **[LOCATOR/INTERCOM]**.

2 Press the extension number **[1]** ( ) or **[2]** ( ) or press **[0]** to page all handsets.

3 Press **[SP-PHONE]** to hang up.

- The call will be transferred directly.
- The paged party can answer the transferred call by pressing **[ ]**, **[ ]** or **[SP-PHONE]**.
- After the paged party answers, the transfer is complete.
- If the paged party does not answer:
  —for the handset, press **[ ]** or **[ ]** to return to the outside call.
  —for the base unit, press **[SP-PHONE]** to return to the outside call.

- If the paged party does not answer within 60 seconds after you hang up, your phone will ring and the call will be returned to your phone. You may speak to the caller again by pressing **[ ]**, **[ ]** or **[SP-PHONE]**.
  If you do not answer the call within 4 minutes, the call will be disconnected.

Conference Calls

While you are talking with an outside caller, the base unit user or a handset user can join the conversation and establish a conference call.

Handset

1 During a call, press **[HOLD/ INTERCOM]**.
- The call is put on hold.

2 To page the base unit, press **Base**.
To page another handset, press **Handset**.

3 When the paged party answers, press **Conf** on your unit to make a conference call.
- "Conference" is displayed during a conference call.

Base Unit

1 During a call, press **[LOCATOR/INTERCOM]**.
- The call is put on hold.

2 To page a handset, press the extension number **[1]** ( ) or **[2]** ( ).

3 When the paged party answers, press **[HOLD/CONF]** on your unit to make a conference call.

- To leave the conference, press **[OFF]** on the handset or press **[SP-PHONE]** on the base unit. The two other parties can continue the conversation.
- During a conference, the outside call can be placed on hold by pressing **[HOLD/ INTERCOM]** on the handset or **[HOLD/CONF]** on the base unit. Internal communications are not suspended. Only the person who placed the call on hold can resume the full conference by pressing **Conf** on the handset or **[HOLD/ CONF]** on the base unit.

Call Share

This feature allows the base unit or the handset to join an existing outside call.

To join a conversation (Call Share)

Handset

Press **[ ]** or **[ ]**.
- "Conference" is displayed.

Base Unit

Press **[SP-PHONE]**.

Special Features

Temporary Tone Dialing

(For Rotary or Pulse Service Users) Handset Base Unit

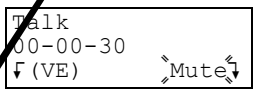
Press **[✳]** (TONE) before entering access numbers which require tone dialing.

- The dialing mode changes to tone. You can enter numbers to access an answering service, electronic banking service, etc. When you hang up, the dialing mode will return to pulse.

Muting Your Conversation

During a call, you can mute your phone so the other party cannot listen to you. When muting your conversation, you can hear the other party.

Handset Press **Mute**.



- "Mute" will flash.
- **To release the mute,** press **Mute** again.
- If you press **[ ]** or **[ ]** to switch between the receiver and speaker, the mute will be released.

Base Unit Press **[MUTE]**.

- The SP-PHONE indicator flashes.
- **To release the mute,** press **[MUTE]** again.

For Call Waiting Service Users

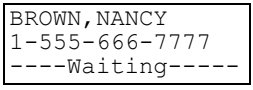
Handset Base Unit

Press **[FLASH/CALL WAIT]** if you hear a call waiting tone during a conversation.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **[FLASH/CALL WAIT]** again.
- Call Waiting service cannot be used when the first call is put on hold, or the Answering System is handling a call.
- If this function does not operate properly, consult your telephone company for details.

Call Waiting Caller ID display Handset

If you subscribe to both Caller ID and Call Waiting with Caller ID service (CWID), when a second call is received while talking, the second caller's information will be displayed. After you hear a call waiting tone while talking, the display shows the caller's name with the phone number and "----Waiting-----".



- Contact your telephone company for details about availability in your area, and to verify that CWID is activated on your telephone line.
- The caller's information will only be shown on the display of the handset which is on the outside call.

The second caller's name will not be announced even if the Talking Caller ID feature is on (p. 31).

Using the PAUSE Key

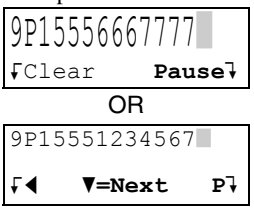
(For PBX Line/Long Distance Calls) Handset

We recommend you press **Pause** or **P** if a pause is required for dial with a PBX or to make a long distance call.

Ex. Line access number **[9]** (PBX)

[9] ➡ **Pause** or **P** ➡ Phone number

Example



- Pressing **Pause** or **P** once creates a 3.5 second pause. This prevents misdialing when you dial after confirming the entered number (p. 26) or dial a stored number (p. 40, 41).
- Pressing **Pause** or **P** more than once increases the length of the pause between numbers.

FLASH Button Handset Base Unit

Pressing **[FLASH/CALL WAIT]** allows you to use special features of your host PB such as transferring an extension call, or accessing optional telephone service such as call waiting.

- Pressing **[FLASH/CALL WAIT]** cancels Temporary Tone Dialing mode mute (p. 51).

Selecting the flash time Handset

The flash time required depends on your telephone exchang You can select the following flash times: “700, 600, 400, 3 90 ms (milliseconds)”. The factory preset is “700 ms”.

- If PBX functions do not work correctly, consult your settings.

1 Press **[MENU]**.

2 Scroll to “Initial setting” by or **[▲]**, then press **Select**.

3 Scroll to “Set tel line” **[▲]**, then press **Select**

4 Scroll to “ ” by pressing **[▼]** or

5 Select the

6 P

Key Tone Handset

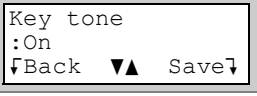
You can select whether or not the handset keys will sound tones (key tone, confirmation tone, error tone). The factory preset is ON.

1 Press **[MENU]**.

2 Scroll to "`Initial setting`" by pressing **[▼]** or **[▲]**, then press **`Select`**.

3 Scroll to "`Key tone`" by pressing **[▼]** or **[▲]**, then press **`Select`**.

4 Select "`Off`" or "`On`" by pressing **[▼]** or **[▲]**.



5 Press **`Save`**, then press **[OFF]**.

Re-registering the Handset Handset & Base Unit

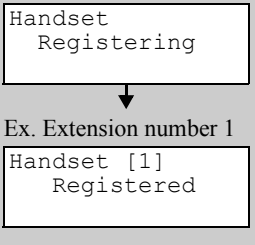
If "`No link to base. Move closer to base, try again.`" is displayed even when using the handset near the base unit, the handset may have lost communication with the base unit. You need to re-register the handset to the base unit.

- **Make sure the base unit is not being used.**
- **Have both handsets and base unit nearby during registration.**
- **Follow steps 1–3 listed below. You have about 1 minute to complete them.**
- **Confirm the extension number of the handset which has lost the communication by placing the handset on the base unit or charger.**
  If you re-register the handset using the other handset's extension number, the other handset will not function.

1 *Base unit:* Press and hold **[LOCATOR/INTERCOM]** until a beep sounds.
- The CHARGE indicator flashes.

2 *Base unit:* Press the extension number **[1]** ( ) or **[2]** ( ) of the handset which has lost the communication.

3 *Handset:* Press and hold **[FLASH/CALL WAIT]** until "`Handset Registering`" is displayed.
- When registration is complete, a beep sounds from the handset and the display shows the number.
- **Wait for 20 seconds after registration is complete while the handset establishes communication with the base unit.**



- If the handset beeps 3 times and "`Error!!`" is displayed, an error occurred. Try again from step 1.
- You can stop registration by pressing **[OFF]** on the handset, and pressing **[LOCATOR/INTERCOM]** on the base unit.

Monitoring Incoming Calls Base Unit

While a caller is leaving a message, you can monitor the call through the base unit speaker.

- To increase the speaker volume while monitoring, press **VOLUME [∧]**. To decrease the volume, press **VOLUME [∨]**.

To answer a call while monitoring, press **[SP-PHONE]** on the base unit or press **[ ]** or **[ ]** on the handset.

To turn the incoming call monitoring feature off

When the base unit is not in use, press **[GREETING CHECK]**, then press **VOLUME [∨]** repeatedly until "0" is displayed. (Make sure the Answering System is turned on.)

OR

While monitoring, press **VOLUME [∨]** repeatedly until "0" is displayed.

- If the incoming call monitoring feature is turned off, it will remain off when the next call is monitored.
- If you adjust the speaker volume while playing back messages or using the speakerphone, the speaker volume for monitoring will be turned on again. To turn the speaker volume off, see "To turn the incoming call monitoring feature off" of above step.

Listening to Messages

Voice Day/Time Stamp: During playback, the unit will announce the day and time when each message was recorded (p. 14).

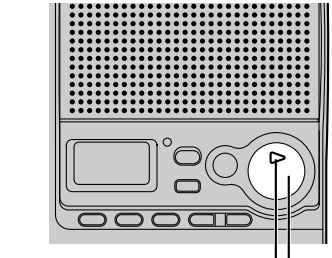
Using the Base Unit Base Unit

You can see the total number of recorded messages on the base unit display. If the NEW MESSAGE indicator flashes on the base unit, new messages have been recorded.

To play back messages

Press **[MESSAGE]**.

- The unit announces the number of new messages and only new messages are played back.
- When you have no new messages, the unit announces "No new messages. All message playback" and plays back all messages.
- When you have no messages, the unit announces "No messages".



- During playback, the display shows the message number.
- At the end of the last message, "End of final message" is heard. The unit will announce the remaining recording time if it is less than 3 minutes.
- If a call is received during playback, the unit rings and playback stops. To answer the call, press **[SP-PHONE]**. For playback, start again from the beginning after hanging up.

Using the Handset (Remote Operation) Handset

If "New message" is displayed on the handset, new messages have been recorded.

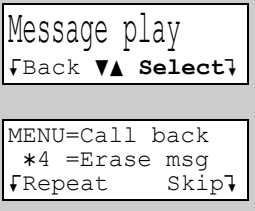
- If the Message Alert is turned on (p. 24), the Ringer/Message Alert indicator on the handset will flash slowly when new messages have been recorded and the handset is not in use.

To play back messages

1 Press **[MENU]**.

2 Press **Select** at "Message play".

- The unit announces the number of new messages and only new messages are played back from the speaker. To switch to the receiver, press **[ ]**. To switch back to the speaker, press **[ ]**.
- When you have no new messages, the unit announces "No new messages. All message playback" and plays back all messages.
- When you have no messages, the unit announces "No messages".
- To play all messages, press **[5]**.
- If you do not press any button, the voice menu will start (see below).



3 To end remote operation, press **[OFF]**.

- If a call is received during playback, the unit rings and playback stops. To answer the call, press **[ ]** or **[ ]**. For playback, start again from the beginning after hanging up.
- At the end of the last message, "End of final message" is heard. The unit will announce the remaining recording time if it is less than 3 minutes.
- If you hear "Memory full" after playback, erase unnecessary messages (p. 60).
- When memo messages are played (p. 61), "MEMO" is displayed.

Voice menu

If you do not press any buttons at the end of the last message, the unit will announce "End of final message" and the voice menu will begin.
The unit announces, "Press 4 to play back new messages. Press 5 to play back all messages."

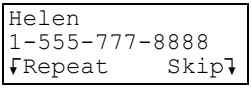
- You can press buttons for other playback options (p. 59) even if the voice menu has started.
- If you do not press any button within 10 seconds after the voice menu, the handset will exit remote operation.

For Caller ID service users (p. 30)

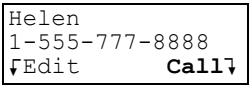
During playback using the handset, the handset display will show the name and/or number of the caller whose message is being played.

To call back the displayed number:

1. During playback, press **[MENU]**.



2. Press **Call**, **[ ]** or **[ ]**.



- The unit stops playback and dials the phone number.
- If you need to edit the phone number to call back, see page 34.

During playback Base Unit Handset

To adjust the speaker volume	*Base unit:* To increase volume, press **VOLUME [∧]**. To decrease volume, press **VOLUME [∨]**. *Handset:* To increase volume, press **[▲]**. To decrease volume, press **[▼]**. • You can also adjust the receiver volume on the handset.
To repeat a message	*Base unit:* Press **[REPEAT]**. *Handset:* Press **Repeat** or **[1]**. • If pressed within the first 5 seconds of playback, the previous message will be played.
To skip a message	*Base unit:* Press **[SKIP]**. *Handset:* Press **Skip** or **[2]**.
To stop playback	*Base unit:* Press **[STOP]**. • To resume playback, press **[MESSAGE]**. • If you do not press any button for 60 seconds or if you press **[STOP]** again, playback mode will be canceled. *Handset:* Press **[9]**. • If you do not press any button within 15 seconds after stopping playback, the voice menu will start (p. 58).

—
—t
Erase
after ea

Erasing

Base Uni

Press **[ERASE**
to erase is being

- The unit beeps, the
- To exit playback mod

Handset

Press **[✳] [4]** while the m
erase is being played.

- The unit beeps, then plays back
- To exit remote operation mode, p

Erasing all messages

All recorded messages, except the greeti

Base Unit

1 Press **[ERASE]** while the base unit is not b
- "To erase all messages, press ERASE again" is he

2 Within 10 seconds, press **[ERASE]** again.
- The unit beeps, then announces "No messages".
- The base unit display shows "0".

Handset

1 Press **[MENU]**.

2 Press **Select** at "Message play".

3 Press **[✳] [5]**.
- The unit beeps, then announces "No messages".
- To end remote operation, press **[OFF]**.

- Information in the Caller List will not be erased. To erase caller information, see page 37.

Recordin Memo

Base Unit

ou can record a vo m ss of u

Press **[MEMO]**

After the long b) cm
(8 inches) awa

s th elap

• e e ceeds
s ue from
i

3 Wh or **[S**
• Th shes

you rec in he u
" " is di nd r m . Record your
essage aga art

Remote Operation from a Touch Tone Phone

While outside, you can operate the Answering System from any touch tone phone. A synthesized voice menu will guide you through the Answering System (p. 64).

• To skip the voice menu and operate the unit directly, see page 65.

Summary of remote operation

Call your unit from a touch tone phone.

↓

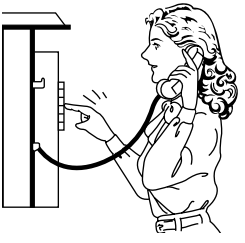
Enter your remote code (p. 63) during or after the greeting message.
• The number of new messages is heard, and the new messages will be played.*

↓

After 3 seconds, the voice menu will start (p. 64).
Follow the menu or enter direct commands (p. 65).

↓

To end remote operation, hang up.



• The unit will announce the remaining recording time after playback if it is less than 3 minutes.
• The messages are saved.

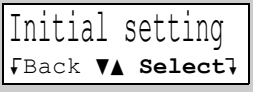
* If "No new messages" is announced, the unit has only old messages.
If "No messages" is announced, the unit has no messages.

Remote Code Handset

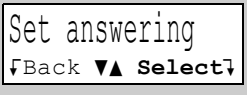
The remote code prevents unauthorized people from accessing your unit and listening to your messages. Choose any **2-digit number (00–99)** for your remote code. The factory preset remote code is "**11**". If you do not program your own remote code, you can use "11".

1 Press **[MENU]**.

2 Scroll to "`Initial setting`" by pressing **[▼]** or **[▲],** then press **`Select`**.

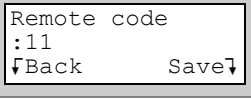


3 Press **`Select`** at "`Set answering`".



4 Scroll to "`Remote code`" by pressing **[▼]** or **[▲]**, then press **`Select`**.

5 Enter a **2-digit remote code (00–99)**.



6 Press **`Save`**, then press **[OFF]**.

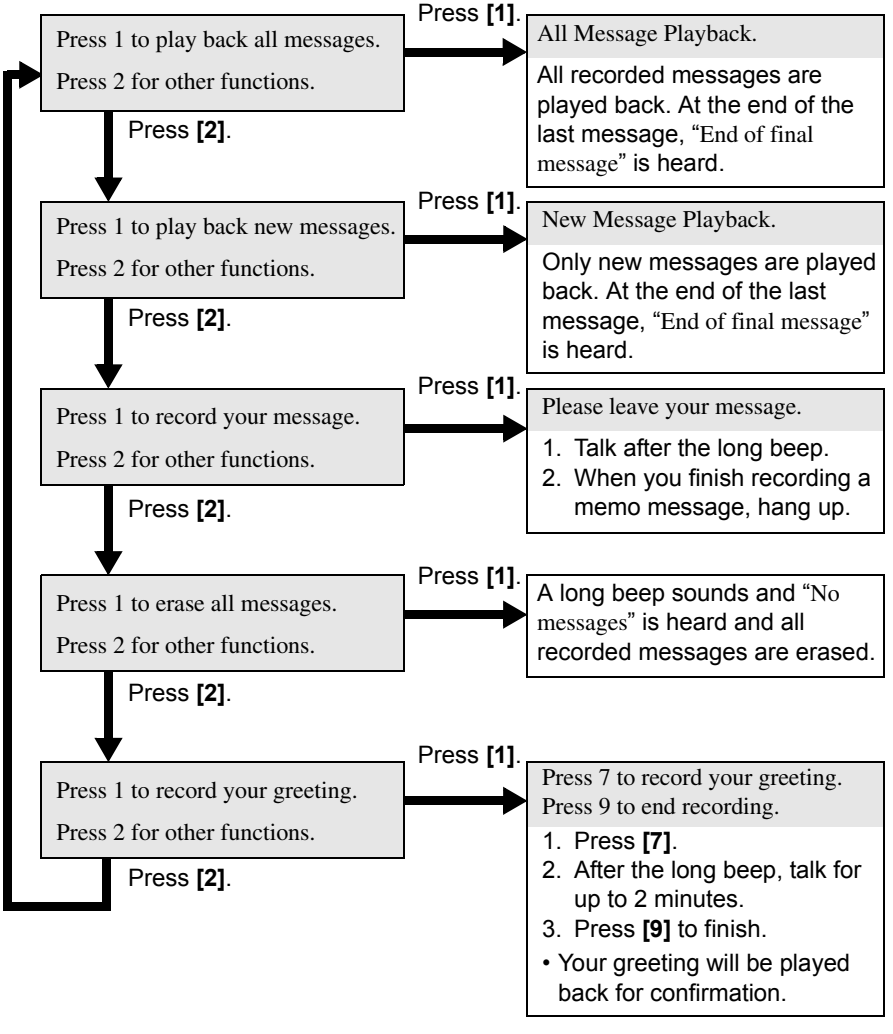
To confirm the remote code, repeat steps 1 to 4.

• The remote code is displayed. When finished, press **[OFF]**.

Remote Operation from a Touch Tone Phone

Voice Menu

The shaded parts are voice prompts.


Press 1 to play back all messages.
Press 2 for other functions.
Press [1].
All Message Playback.
All recorded messages are played back. At the end of the last message, "End of final message" is heard.
Press [2].
Press 1 to play back new messages.
Press 2 for other functions.
Press [1].
New Message Playback.
Only new messages are played back. At the end of the last message, "End of final message" is heard.
Press [2].
Press 1 to record your message.
Press 2 for other functions.
Press [1].
Please leave your message.
1. Talk after the long beep.
2. When you finish recording a memo message, hang up.
Press [2].
Press 1 to erase all messages.
Press 2 for other functions.
Press [1].
A long beep sounds and "No messages" is heard and all recorded messages are erased.
Press [2].
Press 1 to record your greeting.
Press 2 for other functions.
Press [1].
Press 7 to record your greeting.
Press 9 to end recording.
1. Press [7].
2. After the long beep, talk for up to 2 minutes.
3. Press [9] to finish.
• Your greeting will be played back for confirmation.
Press [2].

- 3 seconds after playback, the voice menu will start again from the beginning.
- The unit will announce the remaining recording time after playback if it is less than 3 minutes.
- If you hear "Memory full" after playback, erase unnecessary messages (p. 65).
- If you do not press any buttons within 10 seconds after a voice prompt, "Thank you for your call." will be heard and the call will be disconnected.

Direct Remote Operation

Once you have entered the remote code, you can also control your unit by direct commands instead of using the voice menu. To end remote operation, hang up at anytime.

Direct commands

[4] :	Plays back new messages.
[5] :	Plays back all messages.
[1] :	Repeats the current message. • If pressed within the first 5 seconds of playback, the previous message will be played.
[2] :	Skips the current message.
[9] :	Stops the current operation. • To resume, enter a direct command within 15 seconds, or the voice menu will start (p. 64).

[7] :	Records a greeting message. After the long beep, talk for up to 2 minutes.
↓	
[9]	Recording is stopped. • The greeting is played.
[✳] [4] :	Erases the current message. • A short beep will sound and the next message will be played.
[✳] [5] :	Erases all messages. • A long beep will sound and "No messages" will be heard.
[0] :	Turns off the Answering System. • The unit hangs up.

To turn on the Answering System:

Call your unit and wait for 15 rings.

- The unit will answer and the greeting will be played.
- The Answering System will be turned on. Hang up or enter the remote code for other options.
- When turning on the Answering System using a rotary or pulse service telephone, you cannot enter the remote code for other options.

Skipping the greeting

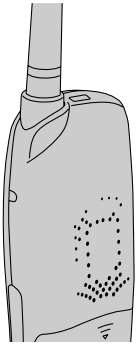
After calling your unit, press **[✳]** during the greeting.

- The unit skips the rest of the greeting and you can start recording your message after the long beep.

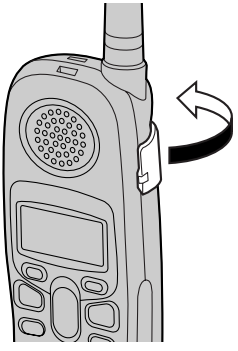
Belt Clip

You can hang the handset on your belt or pocket using the included belt clip.

To attach the belt clip



To remove the belt clip



Optional Headset

Connecting an optional headset to the handset allows hands-free phone conversation. Please use only a Panasonic KX-TCA60, KX-TCA86, KX-TCA88, KX-TCA88HA, KX-TCA91, KX-TCA92, or KX-TCA98 headset. To order, call the accessories telephone number on page 2.

Connecting an optional headset

Open the headset jack cover, and insert the headset plug into the headset jack as shown below.

• Headset sold separately. Model shown here is KX-TCA88.

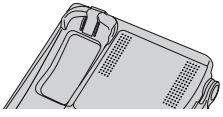
To switch to the speakerphone while using the headset:
Press **[**🔊**]**. To return to the headset, press **[**📞**]**.

Wall Mounting

This unit can be mounted on a wall phone plate.

Base unit

1 Push the hook and turn it upward. Turn the hook until a click is heard.



2 Press the tabs in the direction of the arrows (①), then remove the wall mounting adaptor (②).

3 Connect the AC adaptor. Tuck the telephone line cord inside the wall mounting adaptor, then push the adaptor in the direction of the arrows (① and ②).

- The word “UP WALL” should face upward.
- Fasten the AC adaptor cord to prevent it from being disconnected.

4 Connect the telephone line cord. Mount the unit, then slide it down.

- Raise the antenna.

5 **To charge the handset battery:** Rest the handset on the charge contacts (①), then push the top of the handset so the hook snaps into the slot at the top of the handset (②).

- The unit beeps once and the CHARGE indicator lights.

Direct Commands

Handset

After pressing **[MENU]**, you can also program menu items directly by pressing (**[0]** to **[9]**, **[✳]** and **[#]**) instead of using the soft keys.

Menu item	Command	Selection items	Page
Ringer volume	**[1] [1]**	**[0]** : Off **[1]** : Low **[2]** : Medium **[3]** : High	p. 17
Ringer tone (for handset)	**[1] [2]**	**[1]**–**[3]** : Tone pattern 1–3 **[4]**–**[7]** : Melody pattern 1–4 **[8]**–**[9]** : Downloaded melody pattern 1–2 *1	p. 18
Incoming call tone (for handset)	**[1] [3]**	**[1]** : On **[2]** : Twice **[0]** : Off	p. 53
Message play	**[2]**		p. 58
Date and time	**[4]**	Go to Step 3 on page 14.	—
Voice enhancer	**[5]**	**[1]** : On **[0]** : Off	p. 27
Activate Caller IQ *2	**[7] [1]**		—
View information *4	**[7] [2]** *5	Go to Step 4 on page 81.	—
Get new information *3	**[7] [3]** *5	Go to Step 4 on page 80.	—
Turn Caller IQ off *3	**[7] [4]** *5		p. 78
Turn Caller IQ on *3	**[7] [5]** *5		p. 78
Talking Caller ID (for handset)	**[9]**	**[1]** : On **[0]** : Off	p. 31
Copy phone book –Copy 1 item	**[#] [1]**	Go to Step 4 on page 43.	—
Copy phone book –Copy all items	**[#] [2]**		p. 44
LCD contrast	**[0] [1]**	**[1]**–**[6]** : Level 1–6	p. 20
Key tone	**[0] [2]**	**[1]** : On **[0]** : Off	p. 54
Auto talk	**[0] [3]**	**[1]** : On **[0]** : Off	p. 16
Caller ID number auto edit	**[0] [4]**	**[1]** : On **[0]** : Off	p. 35
Set dial mode	**[0] [5] [1]**	**[1]** : Pulse **[2]** : Tone	p. 15

Direct Commands

Menu item	Command	Selection items	Page
Set flash time	**[0] [5] [2]**	**[1]** : 700 ms **[2]** : 600 ms **[3]** : 400 ms **[4]** : 300 ms **[5]** : 250 ms **[6]** : 110 ms **[7]** : 100 ms **[8]** : 90 ms	p. 52
Set line mode	**[0] [5] [3]**	**[1]** : A **[2]** : B	p. 16
Number of rings	**[0] [6] [1]**	**[2]–[7]** : 2–7 rings **[0]** : Toll saver	p. 23
Recording time	**[0] [6] [2]**	**[1]** : 1 minute **[2]** : 2 minutes **[3]** : 3 minutes **[0]** : Greeting only	p. 22
Remote code	**[0] [6] [3]**	Go to Step 5 on page 63.	—
Recording mode	**[0] [6] [4]**	**[1]** : Standard recording **[2]** : Enhanced recording	p. 24
Change language	**[0] [8]**	**[1]** : English **[2]** : Spanish	p. 15
Message alert	**[0] [#]**	**[1]** : On **[0]** : Off	p. 24
Ringer tone (for base unit)	**[0] [*] [1]**	**[1]–[3]** : Tone pattern 1-3 **[4]–[7]** : Melody pattern 1-4 **[8]–[9]** : Downloaded melody pattern 1-2 *1	p. 19
Incoming call tone (for base unit)	**[0] [*] [2]**	**[1]** : On **[2]** : Twice **[0]** : Off	p. 53
Talking Caller ID (for base unit)	**[0] [*] [4]**	**[1]** : On **[0]** : Off	p. 32

During programming:
When "Save" is displayed, press the right soft key **to save the new settings**.
To exit programming, press **[OFF]**.

- If you press the direct command incorrectly, press **[OFF]**, then re-enter programming mode by pressing **[MENU]**.
- For function details, see the corresponding pages.

*1 You need to first download melody data from the openLCR web site.
*2 Can be used to activate Caller IQ. See the leaflet included with this unit for more information.
*3 For openLCR subscribers only.
*4 For openLCR subscribers only. If information is not downloaded to your unit, "Get new Info.?" will be displayed. To download information, see page 80.
*5 After pressing **[7]**, make sure "View Info.?" is displayed, then press the next command.
If Caller IQ is turned off, "Turn CIQ on?" is displayed after pressing **[7]**.

If the Following Appear on Your Display...

The following will be displayed when the unit needs your attention.

Display message	Cause & Remedy
Recharge battery	• The battery needs to be charged. Recharge the battery (p. 10).
Charge for 6h	• The battery has been discharged. The handset will not work. Fully charge the battery (p. 10).
No link to base. Move closer to base, try again.	• The handset has lost communication with the base unit. Walk closer to the base unit and try again or re-register the handset (p. 54). • Confirm the base unit's AC adaptor is plugged in. • Raise the base unit antenna.
Please lift up and try again.	• A handset button was pressed while the handset was on the base unit or charger. Lift the handset and press the button again.
Busy	• The base unit and/or another handset is in use. Try again later. • The handset you tried to send phone book items to is in use. Try again later. • The handset you are calling is too far from the base unit. • Another handset is in programming mode. Try again later.
Error!!	• When you tried to re-register the handset, the handset and base unit could not link for some reason, such as interference from electrical appliances. Move the handset and base unit away from any electrical appliances and try again. • Another handset tried to send phone book items to you but the copying stopped (p. 43, 44).
Phone book full	• When you tried to store an item in the phone book, the phone book memory was full. Press **[OFF]** to exit the programming mode. To erase other items from the phone book, see page 42.
System is busy. Please try again later.	• The handset has lost communication with the base unit. Walk closer to the base unit and try again. • The Answering System is in use, such as answering a call or playing back messages. Try again later. • Another handset is in programming mode. Try again later.

If the Following Appear on Your Display...

Display message	Cause & Remedy
---Incomplete--- Phone book full	• When phone book item(s) was(were) sent to another handset, the phone book memory was full and copying stopped. Press **[OFF]** to exit (p. 43, 44). To erase items from another handset phone book, see page 42. You can copy all of the items again or copy the items which have not been copied one by one (p. 43, 44).
Example Tom Jones 555-765-4321	• When you tried to send phone book items, the other handset lost communication with the base unit, or the other handset made an outside call by pressing **[ ]** or **[ ]**. The handset displays the phone book item which was not copied to the other handset. Press **[OFF]**, then try again (p. 43, 44).
No items stored	• Your phone book is empty. No items were copied to another handset.
Line in use	• The base unit or another handset is conducting an outside call or a parallel connected telephone is in use.
Line on hold	• The base unit or another handset is on hold for an outside call.

Troubleshooting

If the handset display shows error messages, see "If the Following Appear on Your Display..." (p. 71–72) for the Cause & Remedy.

Telephone System

Problem	Cause & Remedy
"No link to base. Move closer to base, try again." is displayed and an alarm tone sounds.	• You are too far from the base unit. Walk closer to the base unit. • Confirm the base unit's AC adaptor is plugged in. • Raise the base unit antenna. • If the above remedies do not solve the problem, the handset may have lost communication with the base unit. Register the handset again (p. 54).
Static, sound cuts in/out, fades. Interference from other electrical units.	• Move the handset and base unit away from other electrical appliances (p. 3). • Walk closer to the base unit. • Raise the base unit antenna.
The handset and/or base unit does not ring.	• The ringer volume is turned off. Set to high, medium or, low (p. 17, 18).
The handset display is blank.	• If the only handset display is blank, fully charge the battery (p. 10).
You cannot program any function items.	• Programming is not possible while the handset and/or base unit is being used. • Do not pause for over 60 seconds while programming. • Walk closer to the base unit. • While another user is listening to messages or the Answering System is handling a call, you cannot program. Try again later.
While programming or searching, the handset starts to ring and the program/ search stops.	• A call is coming in. To answer the call, press **[ ]**, **[ ]** or **[SP-PHONE]**. Start again from the beginning after hanging up.
You cannot make an intercom/ outside call.	• Your handset is in remote operation mode (p. 58). Exit by pressing **[OFF]**. • The handset you called is too far from the base unit. • If the handset or base unit is in use, you may not be able to make a call. Try again later.
You cannot redial.	• If the last number dialed was more than 48 digits long, the number will not be redialed correctly.

Troubleshooting

Problem	Cause & Remedy
You cannot make long distance calls.	• Please make sure you have long distance service. • Check if Caller IQ is on. Turn Caller IQ off (p. 78).
The handset does not display the caller's name and/or phone number.	• You need to subscribe to Caller ID. • Other telephone equipment may be interfering with your phone. Disconnect it and try again. • Other electrical appliances connected to the same outlet may be interfering with Caller ID. • Telephone line noise may be affecting Caller ID. • The caller requested not to send his/her Caller ID information (p. 30). • If a call is being transferred to you, the Caller ID information will not be displayed. • If a (separate) Caller ID box is connected between the unit and the telephone wall jack, disconnect the Caller ID box or plug the unit directly into the wall jack.
The handset and/or base unit does not announce the displayed caller's name.	• The handset and/or base unit ringer volumes are turned off. Set to high, medium, or low (p. 17, 18). • The Talking Caller ID feature is turned off (p. 31, 32). Turn it on.
The handset and/or base unit does not announce the displayed caller's name properly.	• Name pronunciation may vary. Name pronunciation quality is based on names most commonly used in the United States. • The handset and/or base unit will announce each letter of abbreviations, such as "Co." and "Inc.". • Caller ID supports names of up to 15 letters. If the caller's name has more than 15 letters, the name will not be announced correctly.
The handset cannot automatically edit the Caller List/incoming phone numbers.	• The Caller ID number auto edit feature is turned off. Turn it on (p. 35) and try again. • You need to press **[ ]** or **[ ]** after editing the number.
The handset display exits the Caller List or phone book.	• Do not pause for over 60 seconds while searching.
The Ringer/Message Alert indicator flashes slowly when the handset is not ringing and in use.	• The Message Alert is turned on and new messages have been recorded. Turn the Message Alert off (p. 24) or listen to the new messages (p. 57, 58, 62).

Troubleshooting

General

Problem	Cause & Remedy
The handset and/or base unit does not work.	• Check the settings (p. 9–11). • Check whether the dialing mode setting is correct (p. 15). • Fully charge the battery (p. 10). • Clean the charge contacts and charge again (p. 11). • Check battery installation (p. 10). • Unplug the base unit's AC adaptor to reset it. Plug in, and try again. • Re-install the battery (p. 10) and fully charge it.
"Recharge battery" is displayed, " " flashes, or the handset beeps intermittently.	• Fully charge the battery (p. 10).
"Charge for 6h" and " " are displayed and the handset does not work.	• The battery has been discharged. Fully charge the battery (p. 10). • Check battery installation (p. 10).
You charged the battery fully, but "Recharge battery" is still displayed and/or " " continues to flash, or "Charge for 6h" and " " are displayed.	• Clean the charge contacts and charge again (p. 11). • The battery may need to be replaced. If you install a new battery, fully charge it (p. 10).
The CHARGE indicator does not go out after the battery has been charged.	• This is normal.
If you cannot solve your problem	• Visit our website: http://www.panasonic.com/support • Contact us via the web at: http://www.panasonic.com/contactinfo • Call our customer call center at: 1-800-211-PANA(7262)

openLCR Service for Caller IQ

Problem	Cause & Remedy
When you try to download the data from openLCR, the voice prompt is not announced from the handset while "`Listen & follow phone guidance.`" is being displayed.	• Check the settings (p. 9–11). • Dialing to openLCR may have been disconnected. Try again (p. 80). • If you cannot solve a problem, consult openLCR(see below).
For more information about Caller IQ	• Call openLCR's customer service department at 1-866-openLCR(1-866-673-6527). • openLCR's web site: www.openLCR.com

openLCR Service for Caller IQ

This unit is compatible with services provided by openLCR.

Important:

- **If you have any questions regarding the openLCR service, call openLCR's customer service department at 1-866-openLCR(1-866-673-6527).**
- NEITHER PANASONIC COMMUNICATIONS CO., LTD. (PCC) NOR MATSUSHITA ELECTRIC CORPORATION OF AMERICA (MECA) IS IN ANY WAY AFFILIATED WITH, OR RESPONSIBLE FOR THE ACTS OR OMISSIONS OF, OPENLCR.COM, INC. (OPENLCR). NEITHER PCC NOR MECA NOR ANY OF THEIR EMPLOYEES OR AFFILIATES OR CUSTOMERS MAKE ANY WARRANTIES OR REPRESENTATIONS, EITHER EXPRESS OR IMPLIED, T ANY CUSTOMER OR ANY OTHER THIRD PARTY WITH RESPECT TO AN THE SERVICES PROVIDED BY OPENLCR, NOR ASSUME NOR CREAT OTHER OBLIGATION OF ANY KIND ON BEHALF OF OPENLCR.

Turning Caller IQ on or off

After the first download to your phone, C er IQ features are a on. If you wish, you can turn off Caller

- When Caller IQ is on, "【CIQ】" is d yed while talkin

To turn Caller IQ off is already

1 Press **[MENU]**.

2 Scroll to "Calle press then press **sel**

3 Scroll to "] or **[▲]**, the
- "Cal " is

4 Pr

Caller ter it was turned off)

ollow steps "To turn Caller IQ off" above.

2 Press **Yes** Turn CIQ on?".
- "Caller IQ on" is displayed.

3 Press **[OFF]**.

- If y turn Caller IQ on or off using one of the handsets, you will not need to turn f using another handset.

Downloading Data

You can download the following data to your unit from the openLCR web site.

- Phone book data
- Ringer melodies (Custom ringtone)

Function setup for your unit

nformation such as weather forecasts, stock quotes, lottery results, sports scores
d horoscopes (Internet content)

sing the openLCR web site can be done from any computer with Internet

wnloading from openLCR, "dL" flashes on the base unit display.

data on the openLCR web site

penLCR's web site at **www.openLCR.com** and click on
ccount/Login" tab.

one Number and Password, then click Accept.

instructions.

data, enter a name of up to 16 characters, and a
igits.
ms into the phone book of the unit, you need to
gain using the openLCR web site. Then, add
R web site.

es in the handsets and base unit
inger melodies as ringer tone (p. 69,

vailable for download.

o show on the handset

ou also need to store

hange without notice.

openLCR Service for Caller IQ

To download data from openLCR

Each time you download data (p. 79) from openLCR, the information stored in your unit will be updated. To view up-to-date information, you will need to download it to your unit.

- You can select the items of information on the web site which you want to view.
- Each handset can download its own data only. Either handset can be used to download data for base unit.
- Horoscopes are for entertainment purposes only.

- You can also go to the Caller IQ menu after pressing **[ ]** or **[ ]**. Press **[MENU]**, then **[2]** to select "2=Caller IQ". Follow steps 3 to 5 above.
- If the handset beeps 3 times and "Download incomplete. Try again." is displayed, the unit has lost communication with openLCR. Store items by following the steps below.
  1. Access the openLCR web site.
  2. Go to the web screen to create the data.
     - To download the phone book data, check the "Re-Download All" box, then click . Then go to step 3.

• If the handset be
full." is displa
items by followin
1. Erase items wh
2. Access the op
3. Go to the web
4. Check the "Re
5. Start again fro
• You cannot acce
same phone line
• While the unit is
be used.

To use down

The melody(ies) y
handsets and will
melody (up to 14

To select the des
menu (p. 18, 19).
—If using the ha
—If using the bas

To view info

1 Press **[MEN**

2 Scroll to "Ca
then press

3 Press **Yes**
• The items
the web are
• If informati
new Info
information

4 Scroll to th
[▼] or **[▲]**.
• You can al
pressing d

5 When finis
handset or

For assist

Important Safety Instructions

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
    A. When the power supply cord or plug is damaged or frayed.
    B. If liquid has been spilled into the unit.
    C. If the unit has been exposed to rain or water.
    D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
    E. If the unit has been dropped or physically damaged.
    F. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

CAUTION:

To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the battery(ies) specified.
2. Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
3. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.
5. Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

- The AC adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is easily accessible.

FCC and Other Information

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:ACJ-----.
If requested, this number must be provided to the telephone company.

Registration No. ..... (found on the bottom of the unit)
Ringer Equivalence No. (REN) 0.1B

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3).

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact a Factory Servicenter or other Authorized Servicer. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

WHEN PROGRAMMING EMERGENCY NUMBERS AND(OR) MAKING TEST CALLS TO EMERGENCY NUMBERS:

1) Remain on the line and briefly explain to the dispatcher the reason for the call.
2) Perform such activities in the off-peak hours, such as early morning or late evenings.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note:
This equ
digital dev
provide rea
installation. T
energy and, if n
harmful interfere
interference will no
harmful interference
turning the equipment
interference by one or m
—Reorient or relocate the
—Increase the separation b
—Connect the equipment int
receiver is connected.
—Consult the dealer or an expe
Some cordless telephones operate
nearby TVs and VCRs. To minimize
cordless telephone should not be plac
interference is experienced, move the co
or VCR. This will often reduce, or eliminat
Operating near 2.4GHz electrical appliances
from the electrical appliances.

FCC RF Exposure Warning:
This product complies with FCC radiation exposure
uncontrolled environment.
To comply with FCC RF exposure requirements the bas
operated with its antenna located 20 cm or more betwee
body (excluding extremities of hands, wrist and feet). The
carried and operated with only the specific provided belt-clip
clips or similar body-worn accessories may not comply and m
base and handset units must not be co-located or operated in c
other antenna or transmitter.
This equipment is hearing aid compatible as defined by the FCC in 4
68.316.

When you hold the phone to your ear, noise might be heard in your Hea
Some Hearing Aids are not adequately shielded from external RF (radio
frequency) energy. If noise occurs, use an optional headset accessory or t
speakerphone option (if applicable) when using this phone. Consult your
audiologist or Hearing Aid manufacturer about the availability of Hearing Aids
which provide adequate shielding to RF energy commonly emitted by digital
devices.

FCC and Other Information

A TIA/EIA-IS-968 compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack that is also TIA/EIA-IS-968 compliant.

The software contained in this equipment to allow user access to the network must be ungraded to recognize newly established network area codes and exchange codes as they are placed into service.

Failure to upgrade the premises systems or peripheral equipment to recognize the new codes as they are established will restrict the customer and the customer's employees from gaining access to the network and to these codes.

- **Environment** — do not place the unit in a room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- **Medical** — consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 2400MHz to 2481MHz, and the power output level can range 0.04 to 0.1 watts.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.
- **Routine care** — wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you leave the unit unused for a long period of time, unplug the AC adaptor from the outlet.
- **If there is any trouble** — disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult your telephone company.

Index

A

Accessories 2
Answering calls, base unit 29
Answering calls, handset 29
Answering System 55
Auto talk 16, 29

B

Backlit LCD 27
Base unit location 3
Battery charge 3, 10
—Battery information 11
Battery replacement 11
Battery strength 10
Belt clip 66

C

—Call monitoring 56
Call share 50
Call Waiting Caller ID display . . . 51
Call waiting tone 51
—Caller ID number auto edit 35
Caller ID service 14, 30
Caller IQ 78
Caller List, editing 34
Caller List, erasing 37
Caller List, storing 36
Caller List, viewing 33
Calling back from the Caller List 33
—Chain dial 41
Conf (Conference) 50
Conference calls 50
—Copy phone book 43, 44

D

—Date and time 14
Dialing mode 15
Direct commands 69, 70
Display language 15

E

Erasing a message 60, 65
Erasing all messages 60, 65
Error messages 71
Extension number 45

F

FCC and other information 84
FLASH button 52
Flash time 52
—Function menu, Direct commands 69
Function menu, selection 12
Function menu, table 13

G

—Greeting message 20

H

Headset, optional 66
Hold 26, 28

I

Incoming call tone 53
Installation, AC adaptor 9
Installation, battery 10
Installation, charger unit 9
Installation, telephone line cord . . . 9
Intercom call 45
Intercom, paging 45

K

Key tone 54

L

LCD contrast 20
Lighted handset keypad 27
Line mode 16
Listening to messages . . . 57, 58, 62
Location of controls 6, 7

M

Making calls, base unit 28
Making calls, handset 25, 26
Memo message 61
—Message alert 24
Message storage 22
Microphone, base unit 21, 28
Microphone, handset 25
—Monitoring incoming calls 56
Mute 51

Index

N

Navigator key 8
Noise 3
Number of rings 23

O

openLCR 78

P

Pause 52
—Phone book 38
—Phone book, copying 43, 44
Phone book, dialing 40
Phone book, downloading 79
Phone book, editing 42
Phone book, erasing. 42
Phone book, names 39
Phone book, storing 38
Power failure. 9, 14, 22
Pulse service 51

R

—Recording mode 24
Recording time 22
Redial 26, 28
Redial list 26
—Registration 54
Remote code 63
Remote operation, handset 58
Remote operation, touch tone phone 62
Ringer off 17, 18, 29
Ringer tone 18, 19
Ringer volume 17, 18
Rotary service, tone dialing 51

S

Safety instructions 82
Shipping product for service. . . . . Back Cover
Soft keys 8
Specifications 91
SP-phone, base unit 28
SP-phone, handset. 25

T

—Talking Caller ID 31
Toll saver 23
—Transferring a call 48
Troubleshooting, Answering System 75
Troubleshooting, general 76
Troubleshooting, openLCR Service for Caller IQ . . 77
Troubleshooting, Telephone System 73
TTY . . . . . 2, 90, Back Cover

V

VE (Voice Enhancer) 27
—Voice enhancer technology 27
Voice menu 58, 64
—Voice paging 47
Volume control, base unit . . . 28, 59
Volume control, handset 26, 59

W

Wall mounting 67
Warranty 89

• “—” indicates important information and frequently used features.

PANASONIC CONSUMER ELECTRONICS COMPANY, DIVISION OF MATSUSHITA ELECTRIC CORPORATION OF AMERICA
One Panasonic Way
Secaucus, New Jersey 07094

PANASONIC SALES COMPANY, DIVISION OF MATSUSHITA ELECTRIC OF PUERTO RICO, INC.,
Ave. 65 de Infanteria, Km. 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985

Panasonic Telephone Products Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("Limited Warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Parts	Labor
One (1) Year	One (1) Year

During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" Limited Warranty period, there will be no charge for parts. You must mail-in your product during the Limited Warranty period. This Limited Warranty excludes both parts and labor for batteries, antennas, and cosmetic parts (cabinet). This Limited Warranty only applies to products purchased and serviced in the United States or Puerto Rico. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new.

Mail-In Service

For assistance in the continental U.S.A. in obtaining repairs please ship the product to:

Panasonic Services Company Customer Servicenter
Suite B 4900 George McVay Drive McAllen, TX 78503

For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

For Limited Warranty service for headsets if a headset is included with this product please call Panasonic Call Center at 1-800-211-PANA (7262).

When shipping the unit carefully pack, include all accessories, and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone number where you can be reached.

IF REPAIR IS NEEDED DURING THE LIMITED WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.

Limited Warranty Limits And Exclusions

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY. (As examples, this excludes damages for lost time, lost calls or messages, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

Customer Services Directory

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

http://www.panasonic.com/support

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at: 1-800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

For hearing or speech impaired TTY users, TTY : 1-877-833-8855

Accessory Purchases

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:

http://www.pasc.panasonic.com

or, send your request by E-mail to:

npcparts@panasonic.com

You may also contact us directly at:
1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only)
(Monday - Friday 9 am to 8 pm, EST.)
Panasonic Services Company
20421 84th Avenue South, Kent, WA 98032
(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

For hearing or speech impaired TTY users, TTY : 1-866-605-1277

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company
Factory Servicenter:
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park,
Carolina, Puerto Rico 00985
Phone (787)750-4300, Fax (787)768-2910

Specifications

■ **Base Unit**

Power Supply:	AC Adaptor (120 V AC, 60 Hz)
Power Consumption:	Standby: Approx. 2.0 W Maximum: Approx. 5.4 W
Frequency:	2.4 GHz – 2.48 GHz
Dimensions (H x W x D):	Approx. 85 mm x 175 mm x 200 mm (3 11/32" x 6 7/8" x 7 7/8")
Mass (Weight):	Approx. 470 g (1.04 lb.)

■ **Charger**

Power Supply:	AC Adaptor (120 V AC, 60 Hz)
Power Consumption:	Standby: Approx. 0.8 W Maximum: Approx. 4.0 W
Dimensions (H x W x D):	Approx. 69 mm x 74 mm x 99 mm (2 23/32" x 2 29/32" x3 29/32")
Mass (Weight):	Approx. 110 g (0.24 lb.)

■ **Handset**

Power Supply:	Ni-MH battery (3.6 V, 830 mAh)
Frequency:	2.4 GHz – 2.48 GHz
Dimensions (H x W x D):	Approx. 208 mm x 52 mm x 39 mm (8 3/16" x 2 1/16" x 1 17/32")
Mass (Weight):	Approx. 190 g (0.42 lb.)
Security Codes:	1,000,000

■ **Dialing Mode:** Tone (DTMF)/Pulse

■ **Operating Environment:** 5 °C – 40 °C (41 °F – 104 °F)

Specifications are subject to change without notice.

For your future reference

Serial No. _____ Date of purchase _____

(found on the bottom of the unit)

Name and address of dealer _____

If you need assistance with the setup or operation, please call 1-800-211-PANA(7262)
For hearing or speech impaired TTY users, TTY : 1-877-833-8855

© 2004 Panasonic Communications Co., Ltd. All Rights Reserved.